

FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE
CARDINAL O'CONNELL, GREEN, MOLLOY,
MOODY, AND WASHINGTON SCHOOLS

PREPARED FOR
CITY OF LOWELL
375 MERRIMACK STREET
LOWELL, MA 01852



DRAWING NO	TITLE
G100	COVER SHEET
G101	LOCUS PLAN AND SCHOOL ADDRESS
A101	CARDINAL O'CONNELL SCHOOL FIRE ESCAPE PLANS
A102	CARDINAL O'CONNELL SCHOOL FIRE ESCAPE PLANS
A103	GREEN SCHOOL FIRE ESCAPE PLANS
A104	GREEN SCHOOL FIRE ESCAPE PLANS
A105	GREEN SCHOOL FIRE ESCAPE PLANS
A106	MOLLOY SCHOOL FIRE ESCAPE PLANS
A107	MOODY SCHOOL FIRE ESCAPE PLANS
A108	MOODY SCHOOL FIRE ESCAPE PLANS
A109	WASHINGTON SCHOOL NORTH FIRE ESCAPE PLANS
A110	WASHINGTON SCHOOL NORTH FIRE ESCAPE PLANS
A111	WASHINGTON SCHOOL SOUTH FIRE ESCAPE PLANS
A112	WASHINGTON SCHOOL SOUTH FIRE ESCAPE PLANS
A201	CARDINAL O'CONNELL SCHOOL FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A202	GREEN SCHOOL FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A203	MOLLOY SCHOOL FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A204	MOODY SCHOOL FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A205	WASHINGTON SCHOOL NORTH FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A206	WASHINGTON SCHOOL SOUTH FIRE ESCAPE ELEVATIONS AND DETAIL PHOTOS
A501	DETAILS
A502	DETAILS



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Boston Baltimore Orlando Hartford

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PROJECT	FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE CARDINAL O'CONNELL, GREEN, MOLLOY, MOODY, AND WASHINGTON SCHOOLS LOWELL, MA 01852
	OWNER CITY OF LOWELL ENGINEERING DEPARTMENT 375 MERRIMACK STREET LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300 G100		
DESIGNED BY	ACP/AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

GRAPHIC SCALE

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SHEET TITLE

COVER SHEET

DRAWING NO.
G100

CARDINAL O'CONNELL SCHOOL

21 CARTER STREET
LOWELL, MA 01852

GREEN SCHOOL

408 MERRIMACK STREET
LOWELL, MA 01852

MOLLOY SCHOOL

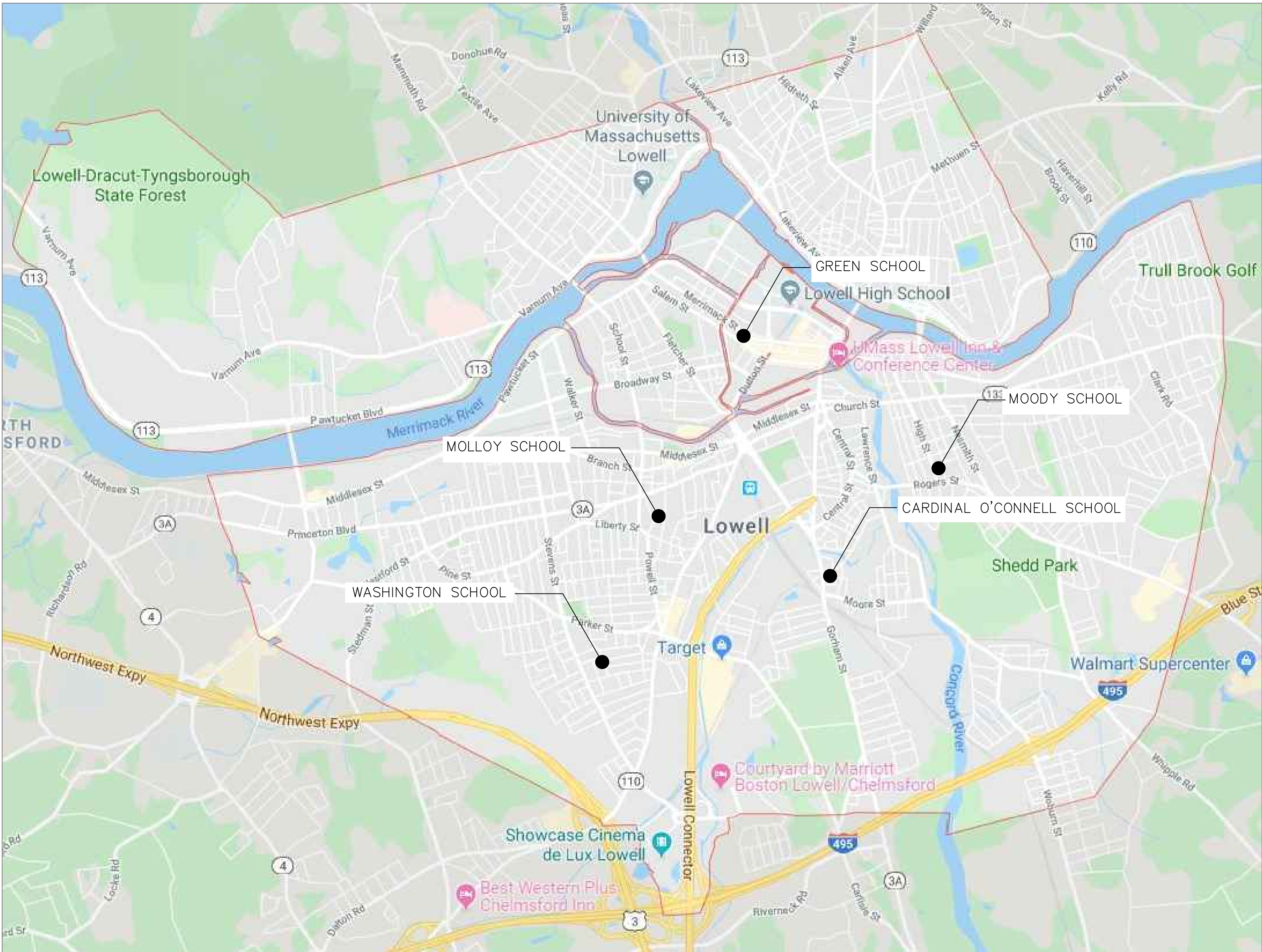
125 SMITH STREET
LOWELL, MA 01852

MOODY SCHOOL

158 ROGERS STREET
LOWELL, MA 01851

WASHINGTON SCHOOL

795 WILDER STREET
LOWELL, MA 01851



LOCATION MAP
NOT TO SCALE



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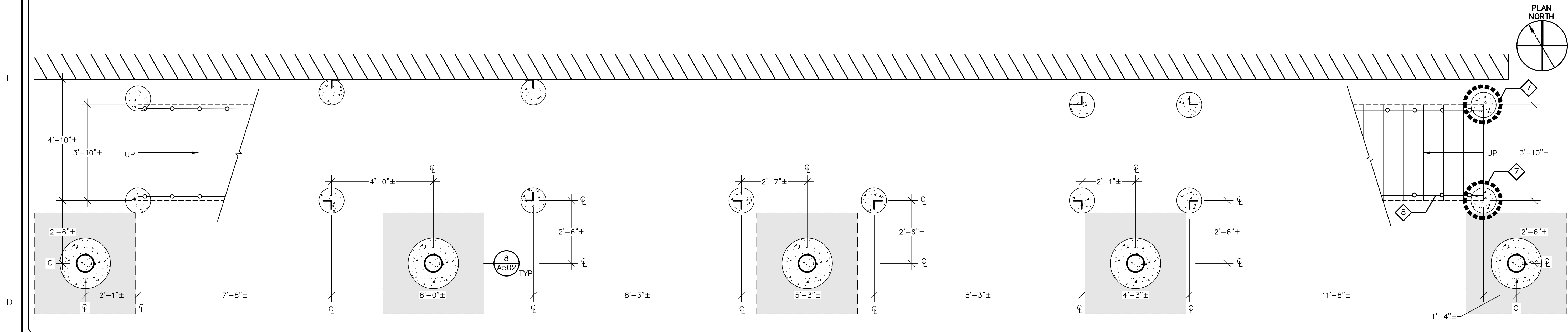
GRAPHIC SCALE

SHEET TITLE

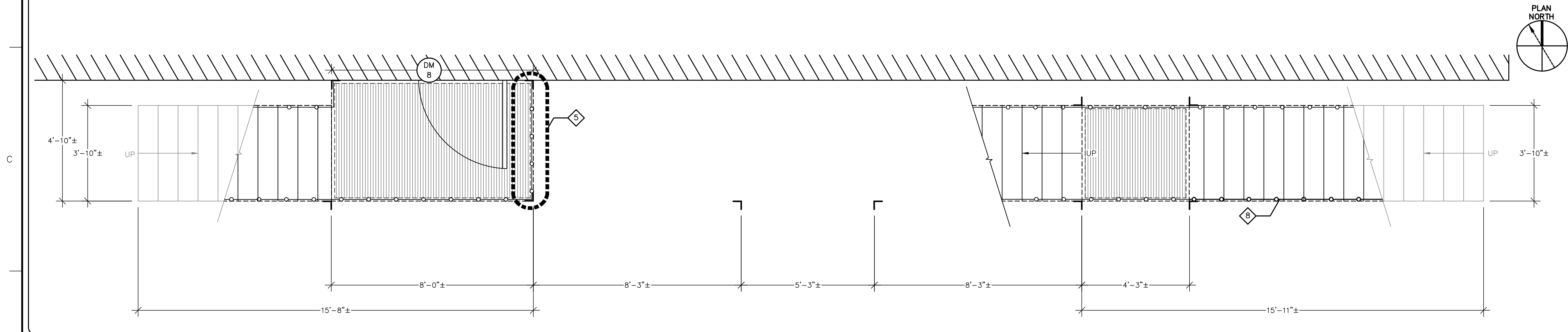
LOCUS PLAN AND SCHOOL ADDRESS

DRAWING NO.
G101

CARDINAL O'CONNEL FIRE ESCAPE – GROUND FLOOR PLAN



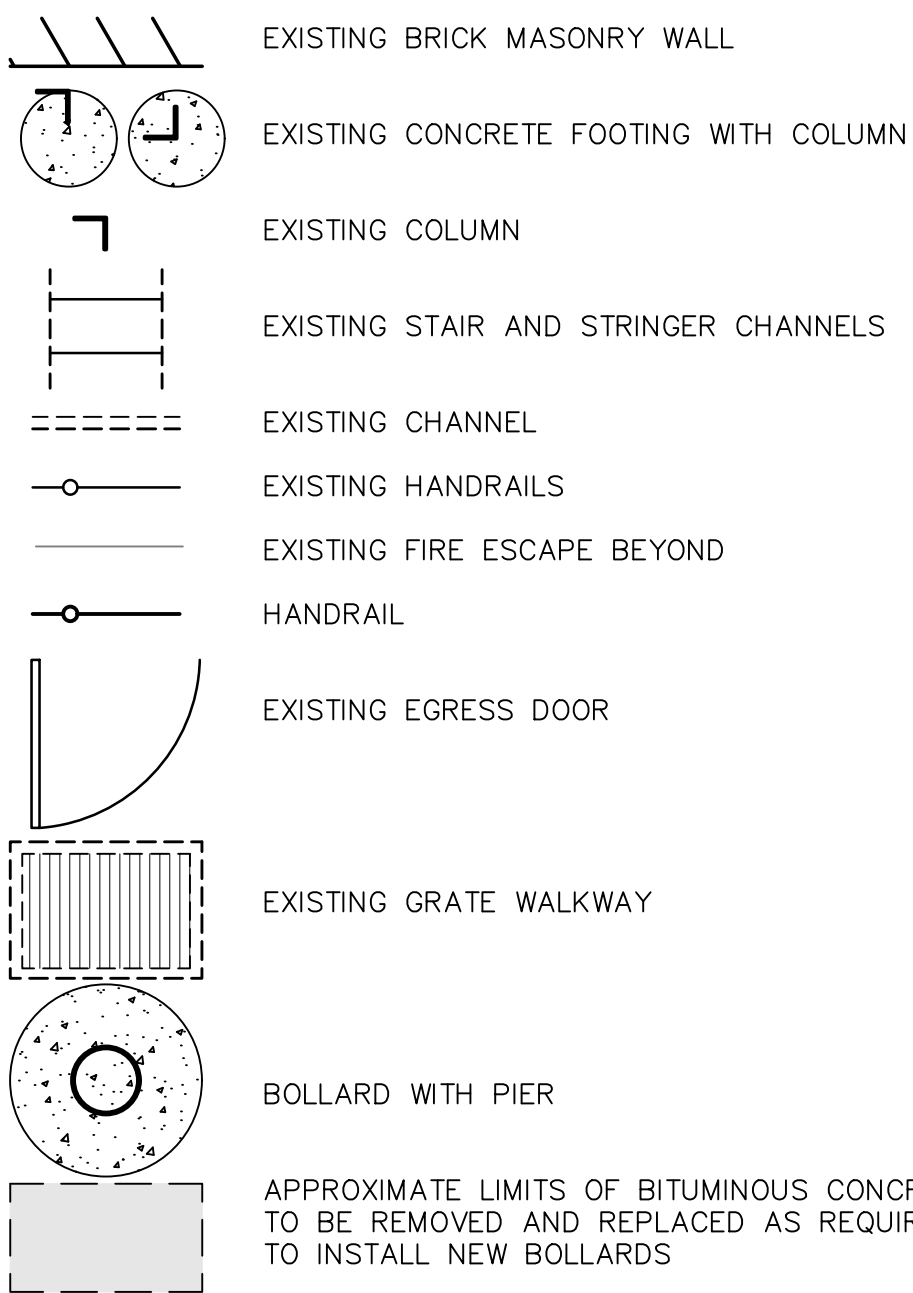
CARDINAL O'CONNEL FIRE ESCAPE – FIRST FLOOR PLAN



GENERAL NOTES

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2. HATCH PATTERNS ARE FOR REPRESENTATION ONLY AND SHOULD NOT BE USED A MEANS FOR QUANTIFYING.
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6. FOR THE SAKE OF CLARITY, SECUREMENT FASTENERS ARE NOT SHOWN ON THE DETAIL DRAWINGS. REFER TO THE SPECIFICATIONS FOR FASTENER TYPES AND SPACING.
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LEGEND



REPAIR NOTES AND LEGEND

- SB # SPALLED BRICK TO BE REPLACED; # INDICATES UNIT QUANTITY
- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- 1 SCRAPE, PRIME AND PAINT APPROXIMATELY 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 2 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 3 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO HANDRAIL MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (REFER TO DETAIL 5/A501) (PAINTING FILED SUB-BID REQUIRED)
- 4 REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 5 DRILL TWO (2) NEW FASTENER HOLES THROUGH RAILING BASE PLATE AND CHANNEL. INSTALL THROUGH BOLTS TO SECURE LANDING GRATE AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 6 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE. INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 7 DRILL NEW FASTENER HOLE INTO CONCRETE FOOTING, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 8 REMOVE AND REPLACE HANDRAIL IN LIKE KIND. SCRAPE EXISTING PAINT AND CLEAN DEBRIS FROM EXISTING STRINGER CHANNEL. WELD NEW HANDRAIL POSTS TO PREPARED EXISTING STRINGER CHANNEL AND PAINT NEW HANDRAIL AND PREPARED PORTIONS TO EXISTING STRINGER CHANNEL TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED)

KEY PLAN



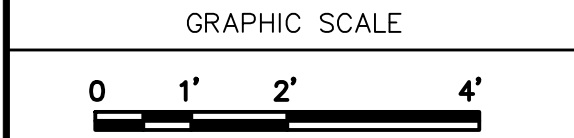
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LOWELL, MA 01852

CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
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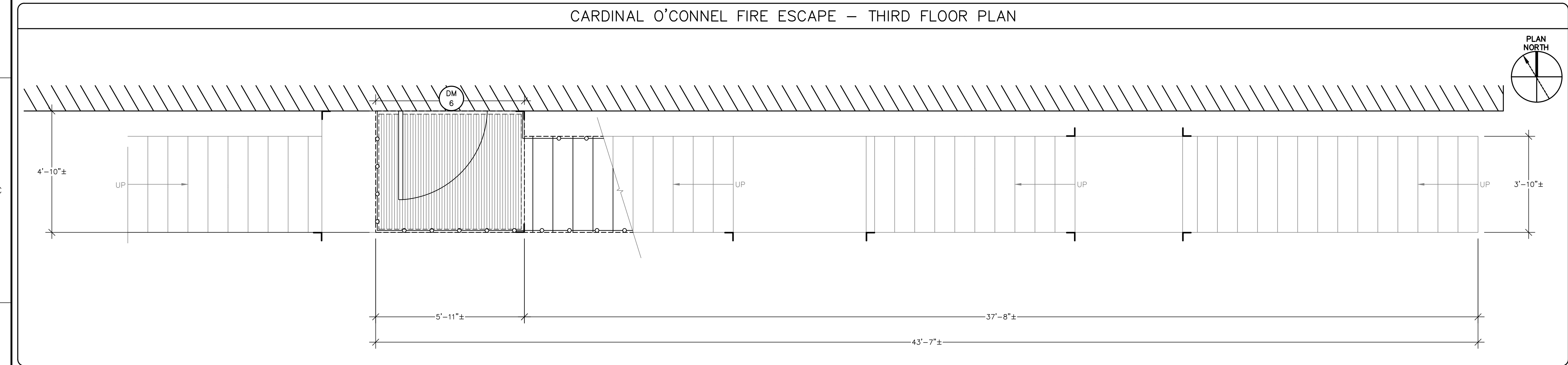
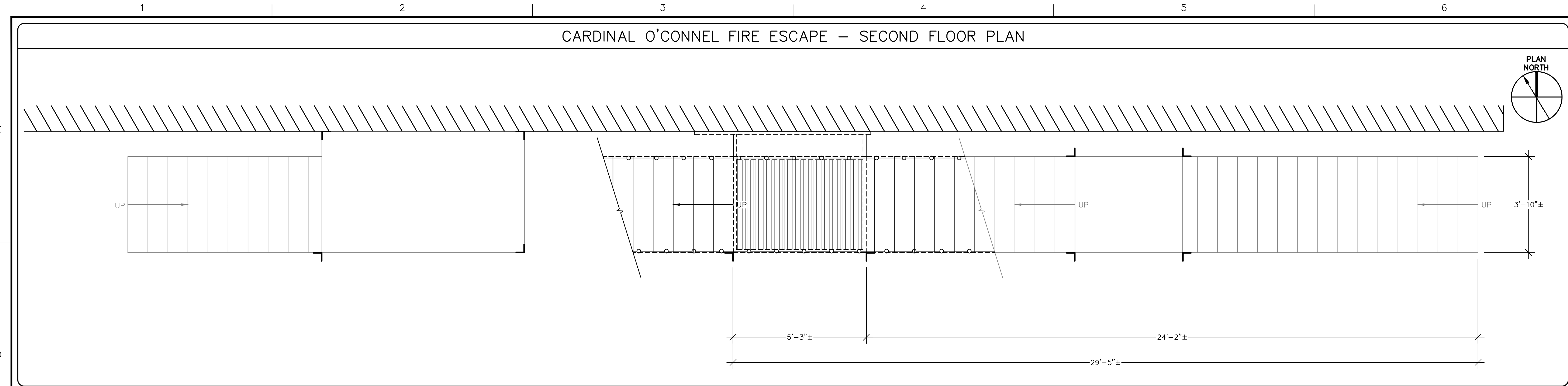


SHEET TITLE

CARDINAL
O'CONNELL
SCHOOL FIRE
ESCAPE PLANS

DRAWING NO.

A101

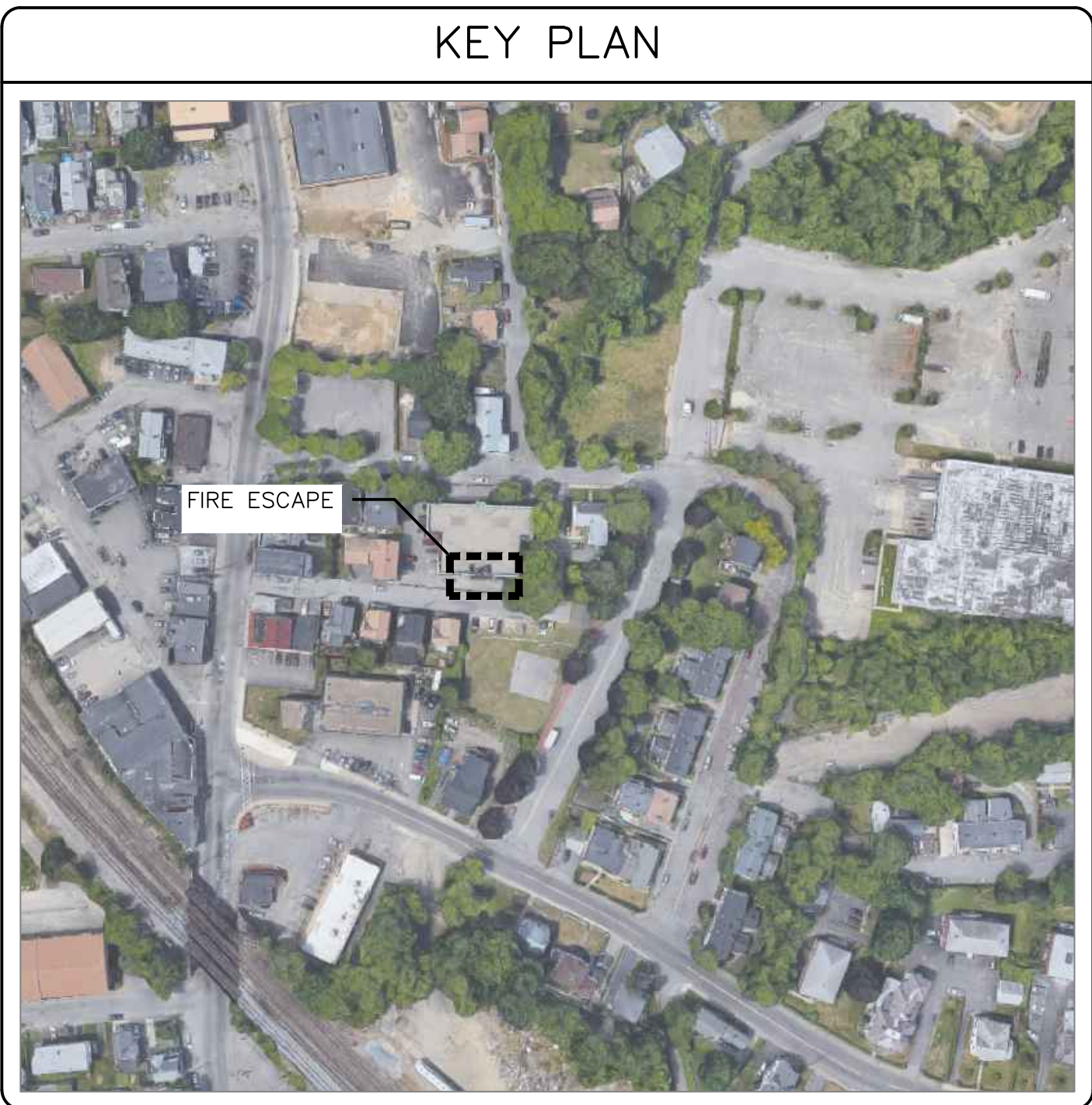


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LEGEND

- EXISTING BRICK MASONRY WALL
- EXISTING CONCRETE FOOTING WITH COLUMN
- EXISTING COLUMN
- EXISTING STAIR AND STRINGER CHANNELS
- EXISTING CHANNEL
- EXISTING HANDRAILS
- EXISTING EGRESS DOOR
- EXISTING FIRE ESCAPE BEYOND
- EXISTING GRATE WALKWAY

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PROJECT
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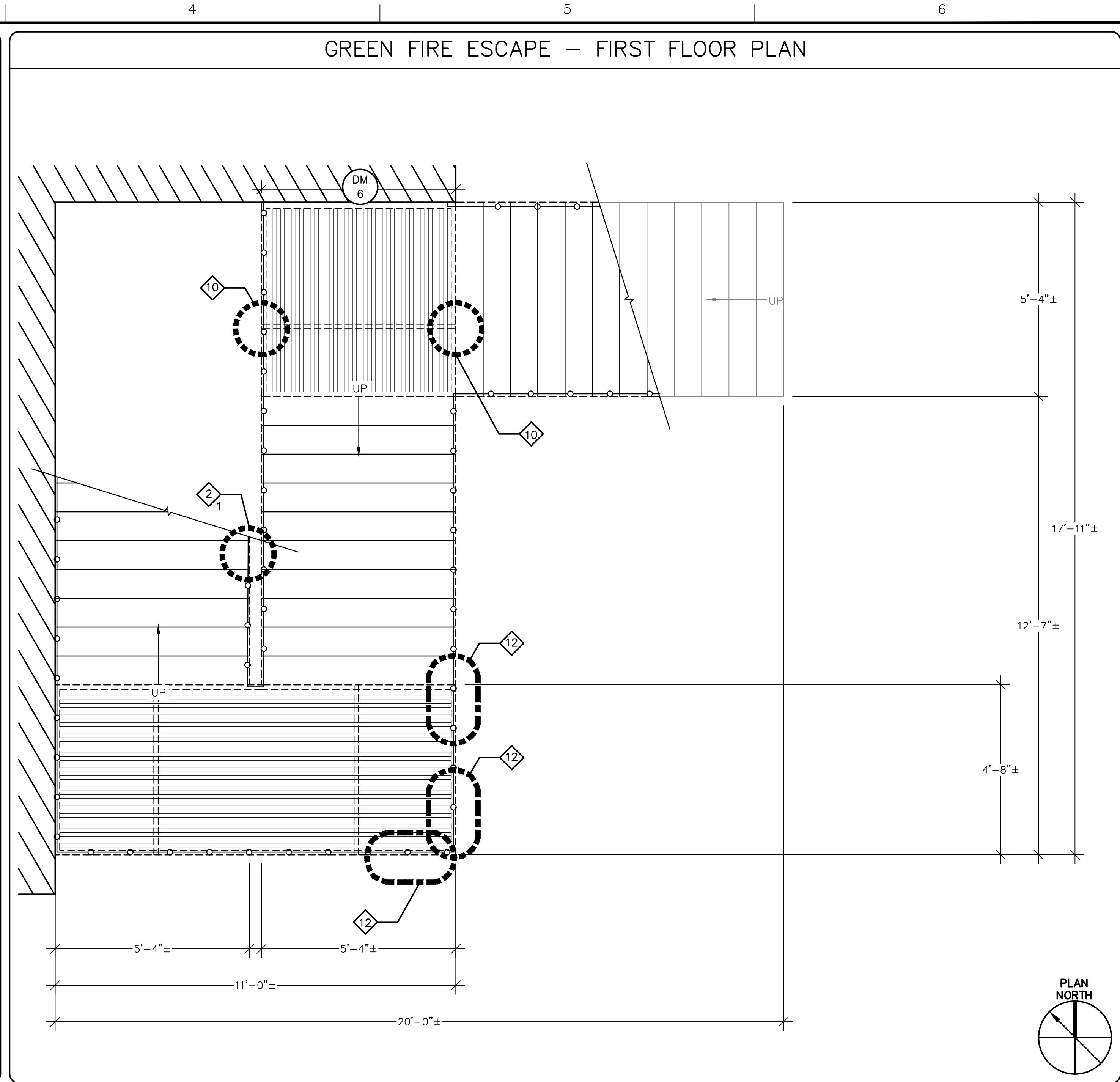
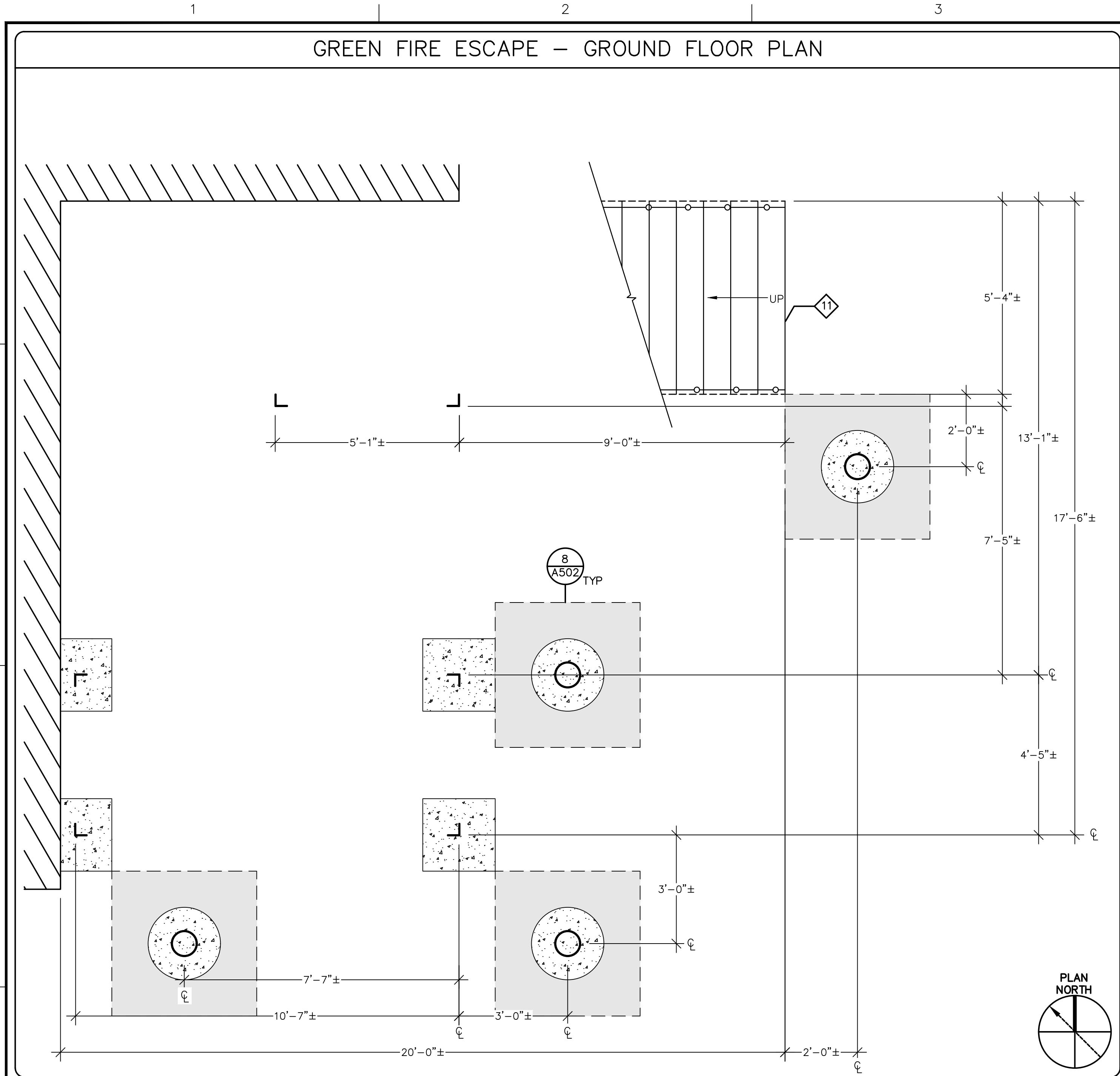
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
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PROJECT NO.	835300		
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DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	1/2" = 1'-0"		

GRAPHIC SCALE
0 1' 2' 4'

SHEET TITLE
CARDINAL O'CONNELL SCHOOL FIRE ESCAPE PLANS

DRAWING NO.
A102



- GENERAL NOTES**
1. THE INFORMATION SHOWN ON THIS DRAWING HAS BEEN COMPILED FROM VARIOUS SOURCES, AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION.
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LEGEND

	EXISTING BRICK MASONRY WALL
	EXISTING CONCRETE FOOTING WITH COLUMN
	EXISTING COLUMN
	EXISTING STAIR AND STRINGER CHANNELS
	EXISTING CHANNEL
	EXISTING HANDRAILS
	EXISTING EGRESS DOOR
	EXISTING FIRE ESCAPE BEYOND
	EXISTING GRATE WALKWAY
	BOLLARD WITH PIER
	APPROXIMATE LIMITS OF BITUMINOUS CONCRETE TO BE REMOVED AND REPLACED TO INSTALL NEW BOLLARDS

REPAIR NOTES AND LEGEND

	DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET. (REFER TO DETAIL 1/A501)
	REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY.
	REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
	SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
	REMOVE EXISTING CLIP ANGLES. SCRAPE, PRIME AND PAINT THE ADJACENT STEEL AND INSTALL NEW CLIP ANGLES AND THROUGH BOLTS TO MATCH THE EXISTING. PAINT NEW STEEL ONCE WORK IS COMPLETE, COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
	REMOVE AND REPLACE DAMAGE STAIR TREAD IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
	CUT AND REMOVE APPROXIMATELY THREE INCHES (3") OF THE CHANNEL FROM THE CORNER. CLEAN EXPOSED SURFACES OF ALL RUST, PRIME AND PAINT. INSTALL NEW REINFORCING PLATE AND THROUGH BOLTS AS SHOWN IN DETAIL 7/A502 (PAINTING FILED SUB-BID REQUIRED)
	REMOVE AND REPLACE DETERIORATED OR MISSING J-BOLTS IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET



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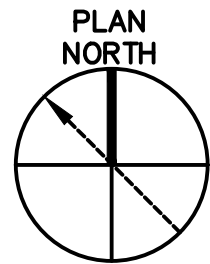
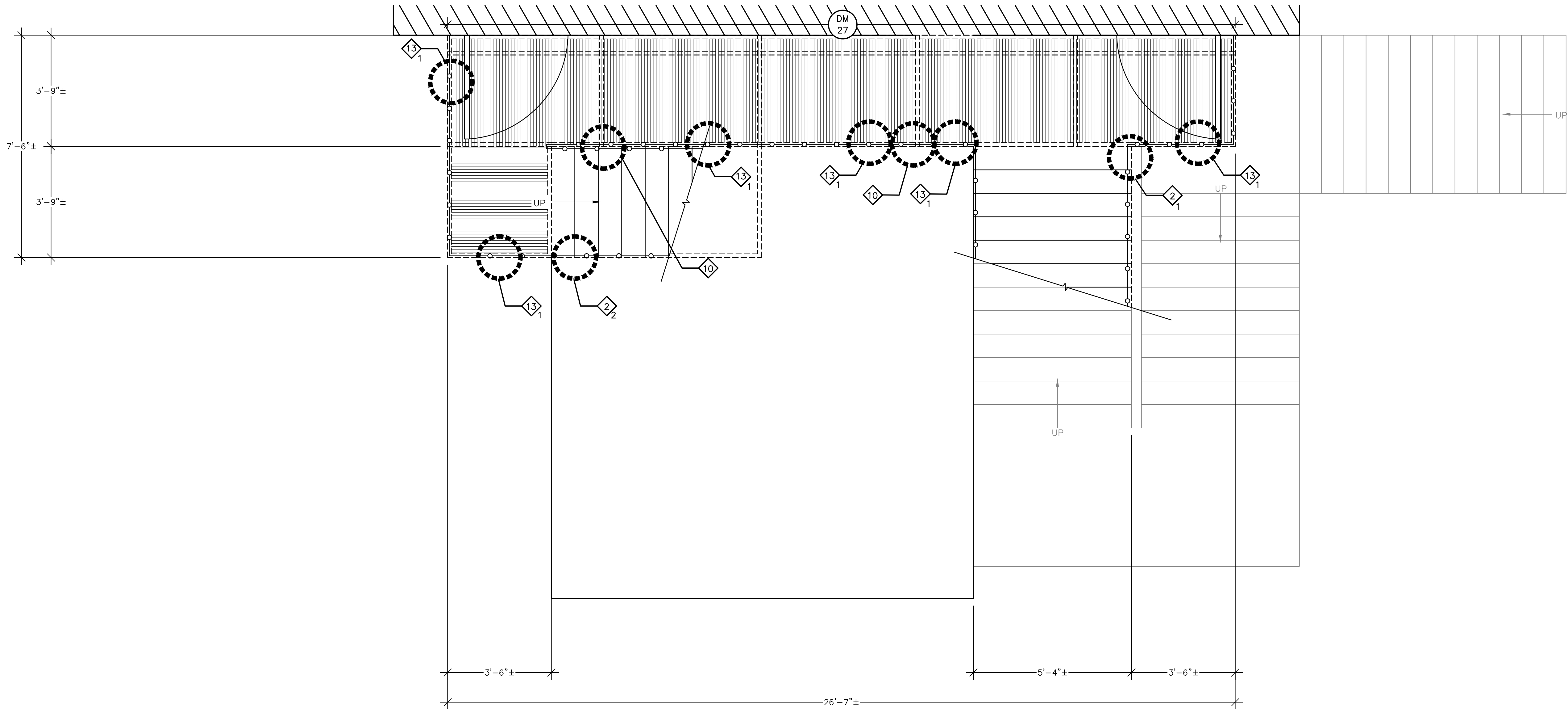
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DATE	12/13/2019		
DRAWING SCALE	1/2" = 1'-0"		

GRAPHIC SCALE
0 1' 2' 4'

SHEET TITLE
GREEN SCHOOL
FIRE ESCAPE
PLANS

DRAWING NO.
A103

GREEN FIRE ESCAPE – SECOND FLOOR PLAN



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LEGEND

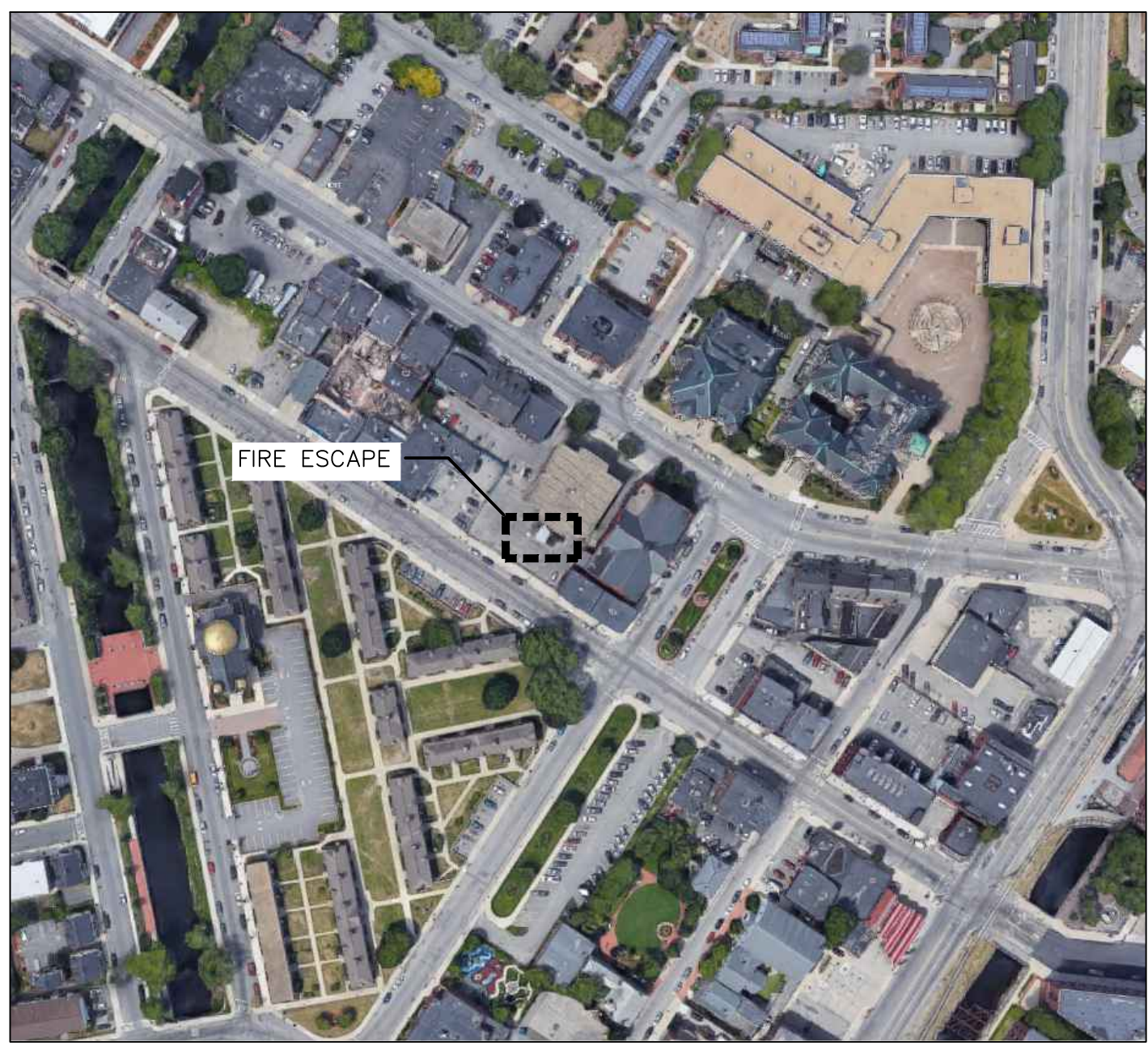
- EXISTING BRICK MASONRY WALL
- EXISTING CONCRETE FOOTING WITH COLUMN
- EXISTING COLUMN
- EXISTING STAIR AND STRINGER CHANNELS
- EXISTING CHANNEL
- EXISTING HANDRAILS
- EXISTING EGRESS DOOR
- EXISTING FIRE ESCAPE BEYOND
- EXISTING GRATE WALKWAY
- EXTENT OF EXISTING BUILDING BELOW

REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET. (REFER TO DETAIL 1/A501)
- 2 # REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY.
- 4 # REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 9 # SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 10 # REMOVE EXISTING CLIP ANGLES. SCRAPE, PRIME AND PAINT THE ADJACENT STEEL AND INSTALL NEW CLIP ANGLES AND THROUGH BOLTS TO MATCH THE EXISTING. PAINT NEW STEEL ONCE WORK IS COMPLETE, COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 11 # REMOVE AND REPLACE DAMAGE STAIR TREAD IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 12 # CUT AND REMOVE APPROXIMATELY THREE INCHES (3") OF THE CHANNEL FROM THE CORNER. CLEAN EXPOSED SURFACES OF ALL RUST, PRIME AND PAINT. INSTALL NEW REINFORCING PLATE AND THROUGH BOLTS AS SHOWN IN DETAIL 7/A502 (PAINTING FILED SUB-BID REQUIRED)
- 13 # REMOVE AND REPLACE DETERIORATED OR MISSING J-BOLTS IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

KEY PLAN

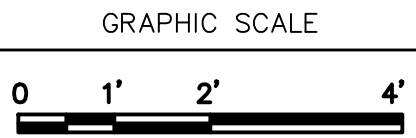


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Boston Baltimore Orlando Hartford

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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300	835300-Green	
CADD FILE	A100s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	1/2" = 1'-0"		



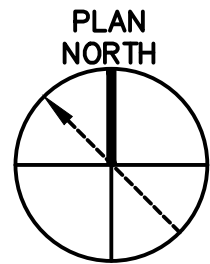
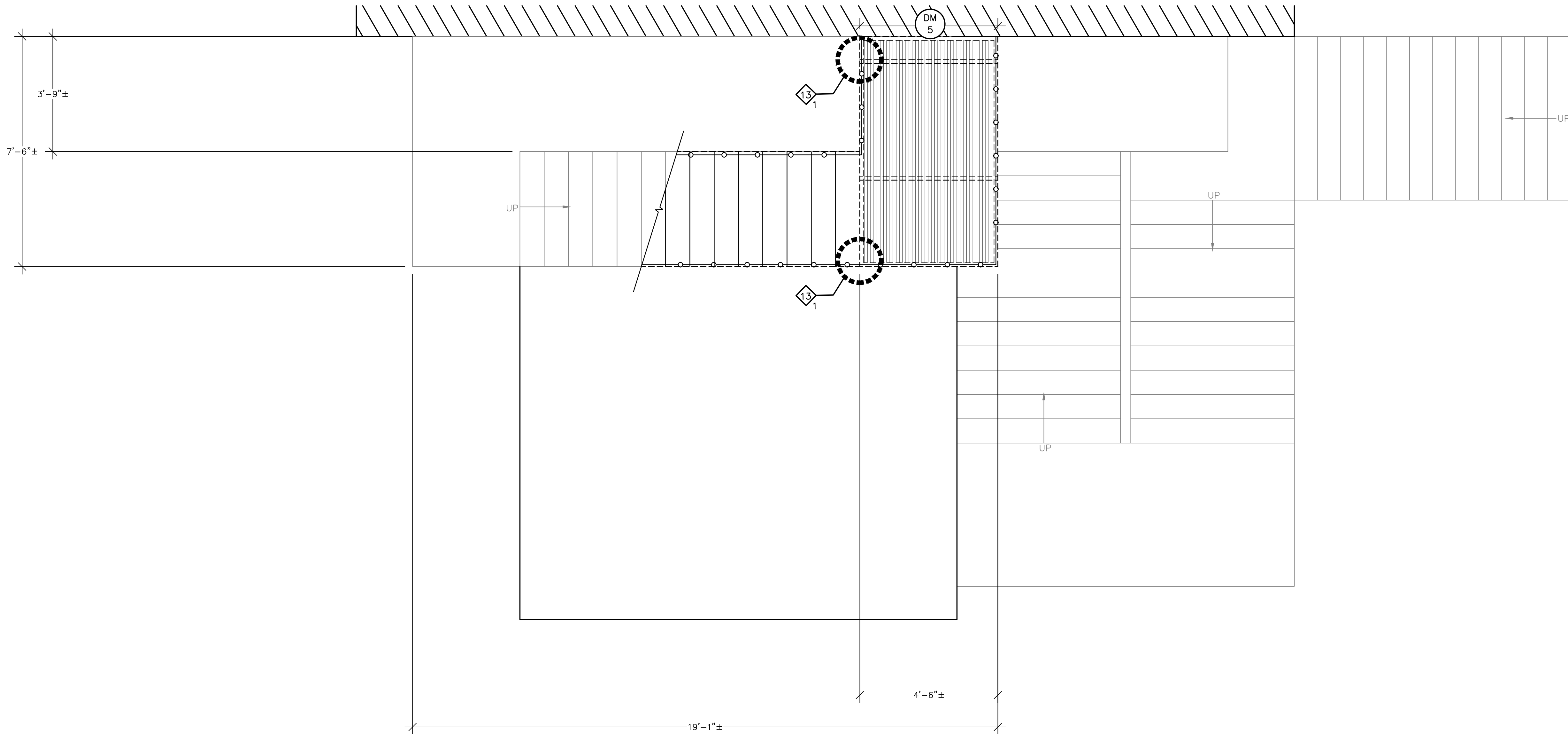
SHEET TITLE

GREEN SCHOOL
FIRE ESCAPE
PLANS

DRAWING NO.

A104

GREEN FIRE ESCAPE – THIRD FLOOR PLAN



GENERAL NOTES

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3. DISCREPANCIES NOTED BY THE CONTRACTOR IN THE DRAWINGS OR SPECIFICATIONS MUST BE BROUGHT TO THE OWNER'S ATTENTION PRIOR TO BID SUBMISSION.
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6. FOR THE SAKE OF CLARITY, SECUREMENT FASTENERS ARE NOT SHOWN ON THE DETAIL DRAWINGS. REFER TO THE SPECIFICATIONS FOR FASTENER TYPES AND SPACING.
7. DETAILS NOT DEPICTED SHALL BE CONSTRUCTED IN A MANNER CONSISTENT WITH THE DETAIL DRAWINGS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL MATERIALS LISTED AND/OR INDICATED ON THE DRAWINGS OR NOTED IN THE WRITTEN SPECIFICATIONS – TYPICAL.
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10. THE BUILDING SHALL BE MAINTAINED IN A DUST FREE CONDITION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY PROTECTION TO ENSURE THE INTERIOR OF THE BUILDING REMAINS DUST FREE. NO DEMOLITION CAN PROCEED UNTIL AN APPROVED TEMPORARY PROTECTION SYSTEM IS IN PLACE.
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LEGEND

- EXISTING BRICK MASONRY WALL
- EXISTING CONCRETE FOOTING WITH COLUMN
- EXISTING COLUMN
- EXISTING STAIR AND STRINGER CHANNELS
- EXISTING CHANNEL
- EXISTING HANDRAILS
- EXISTING EGRESS DOOR
- EXISTING FIRE ESCAPE BEYOND
- EXISTING GRATE WALKWAY
- EXTENT OF EXISTING BUILDING BELOW

REPAIR NOTES AND LEGEND

- DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET. (REFER TO DETAIL 1/A501)
- REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY.
- REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- REMOVE EXISTING CLIP ANGLES. SCRAPE, PRIME AND PAINT THE ADJACENT STEEL AND INSTALL NEW CLIP ANGLES AND THROUGH BOLTS TO MATCH THE EXISTING. PAINT NEW STEEL ONCE WORK IS COMPLETE, COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- REMOVE AND REPLACE DAMAGE STAIR TREAD IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- CUT AND REMOVE APPROXIMATELY THREE INCHES (3") FROM THE CORNER OF THE CHANNEL. CLEAN EXPOSED SURFACES OF ALL RUST, PRIME AND PAINT. INSTALL NEW REINFORCING PLATE AND THROUGH BOLTS AS SHOWN IN DETAIL 7/A502 (PAINTING FILED SUB-BID REQUIRED)
- REMOVE AND REPLACE DETERIORATED OR MISSING J-BOLTS IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

KEY PLAN

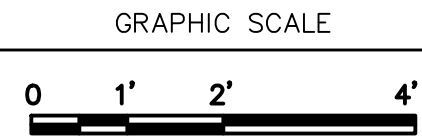


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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300	835300-Green	
CADD FILE	A100s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	1/2" = 1'-0"		



SHEET TITLE

GREEN SCHOOL
FIRE ESCAPE
PLANS

DRAWING NO.

A105

1

2

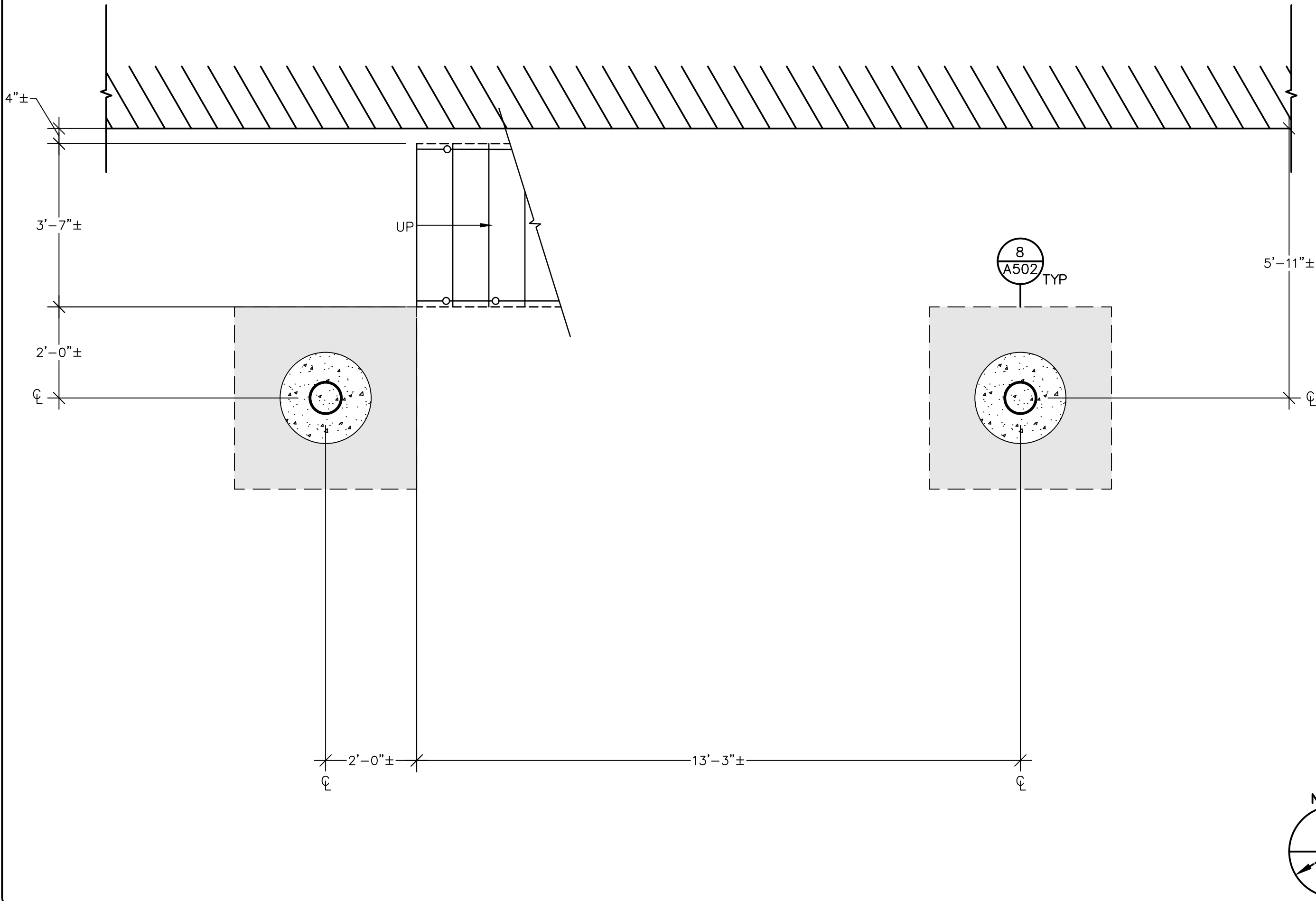
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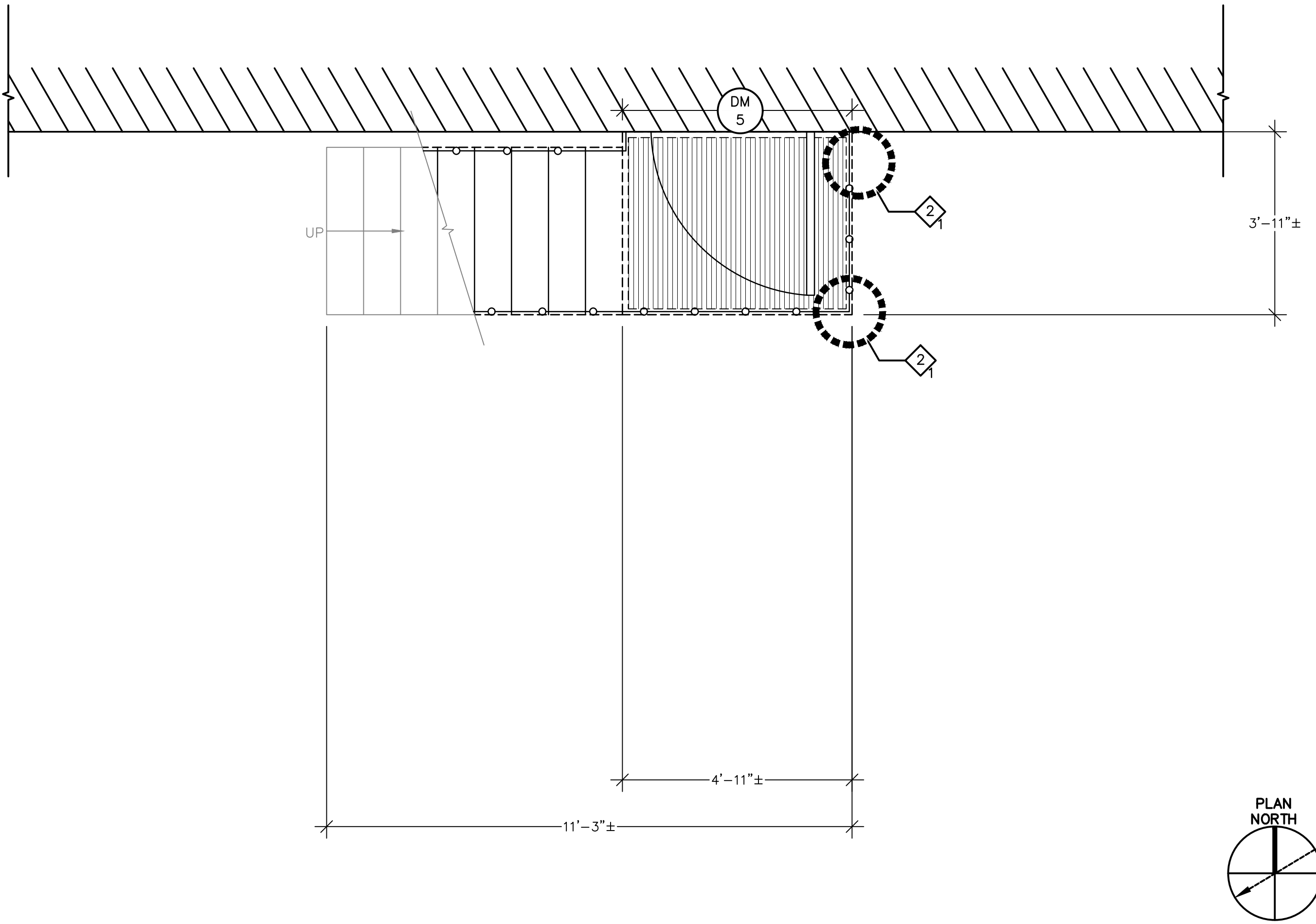
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6

MOLLOY FIRE ESCAPE – GROUND FLOOR PLAN



MOLLOY FIRE ESCAPE – FIRST FLOOR PLAN



GENERAL NOTES

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LEGEND

- EXISTING BRICK MASONRY WALL
- EXISTING STAIR AND STRINGER CHANNELS
- EXISTING CHANNEL
- EXISTING HANDRAILS
- EXISTING EGRESS DOOR
- EXISTING FIRE ESCAPE BEYOND
- EXISTING GRATE WALKWAY
- BOLLARD WITH PIER
- APPROXIMATE LIMITS OF BITUMINOUS CONCRETE TO BE REMOVED AND REPLACED AS REQUIRED TO INSTALL NEW BOLLARDS

REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- 2 # REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 3 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO HANDRAIL, MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (REFER TO DETAIL 5/A501) (PAINTING FILED SUB-BID REQUIRED)
- 6 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE. INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 9 SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)

KEY PLAN

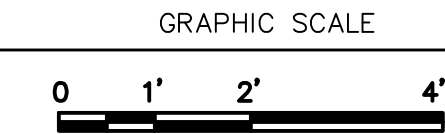


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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300	835300-Molloy	
CADD FILE	A100s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	1/2" = 1'-0"		

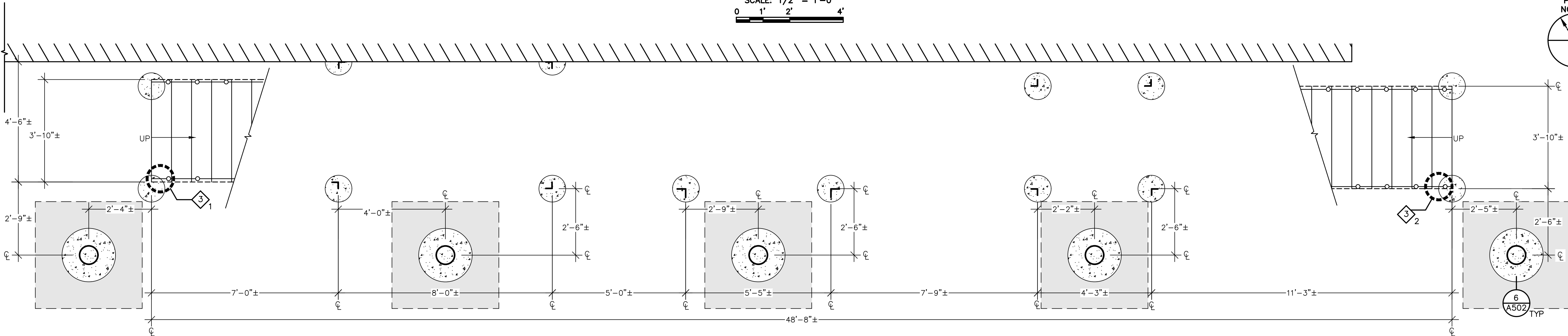
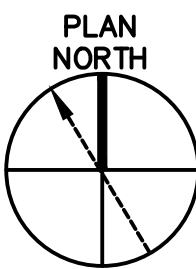


SHEET TITLE
MOLLOY SCHOOL
FIRE ESCAPE
PLANS

DRAWING NO.
A106

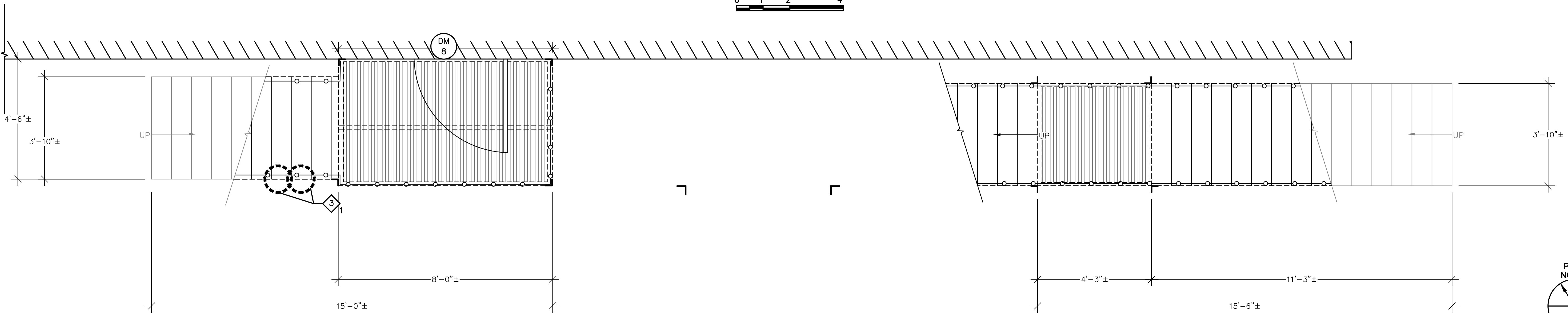
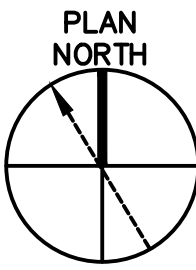
MOODY FIRE ESCAPE – GROUND FLOOR PLAN

SCALE: 1/2" = 1'-0"



MOODY FIRE ESCAPE – FIRST FLOOR PLAN

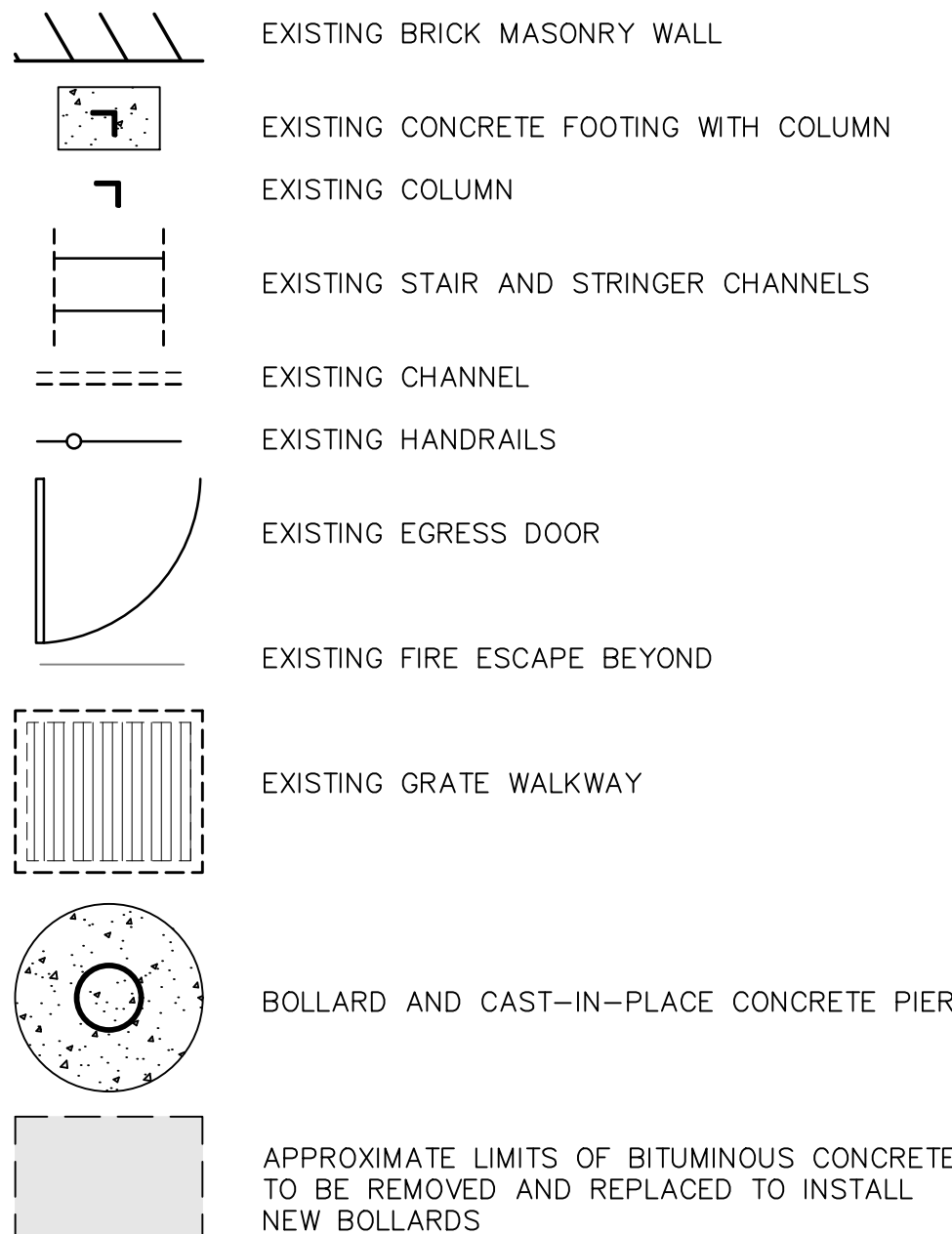
SCALE: 1/2" = 1'-0"



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LEGEND



REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET
D INDICATES CRACKS GREATER THAN 1/4" IN WIDTH (REFER TO DETAIL 2/A501)
S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- SC # SPALLED CONCRETE TO BE REPAIRED; # INDICATES SQUARE FEET (REFER TO DETAIL 4/A501)
- 3 # REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT AND PAINT; COLOR TO BE APPROVED BY OWNER. # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 7 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 8 SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 9 DRILL NEW FASTENER HOLE INTO CONCRETE FOOTING, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 10 REMOVE AND REPLACE EXISTING LANDING GRATING IN LIKE KIND. PAINT NEW LANDING GRATING; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

SITE PLAN



FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

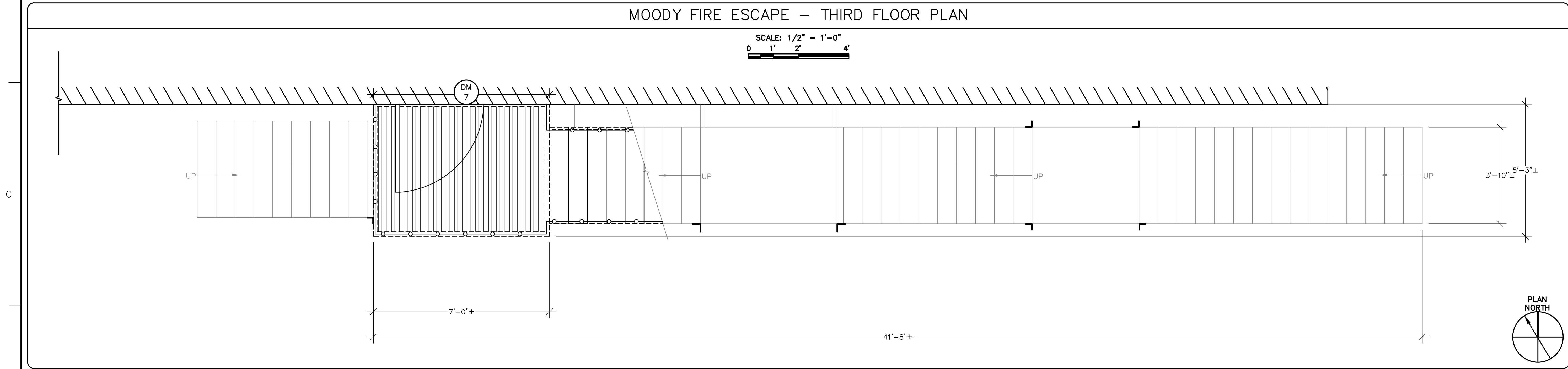
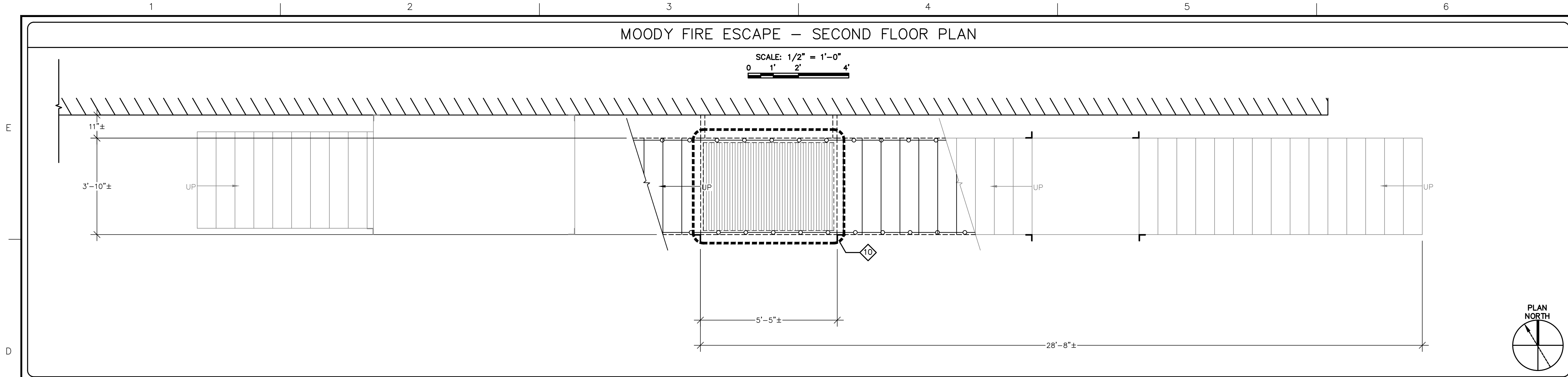
NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300-Moody		
	A100s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ACP / ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	AS NOTED		

SHEET TITLE

MOODY SCHOOL
FIRE ESCAPE
PLANS

DRAWING NO.

A107



- GENERAL NOTES**
1. THE INFORMATION SHOWN ON THIS DRAWING HAS BEEN COMPILED FROM VARIOUS SOURCES, AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION.
 2. HATCH PATTERNS ARE FOR REPRESENTATION ONLY AND SHOULD NOT BE USED A MEANS FOR QUANTIFYING.
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LEGEND

	EXISTING BRICK MASONRY WALL
	EXISTING CONCRETE FOOTING WITH COLUMN
	EXISTING COLUMN
	EXISTING STAIR AND STRINGER CHANNELS
	EXISTING CHANNEL
	EXISTING HANDRAILS
	EXISTING EGRESS DOOR
	EXISTING FIRE ESCAPE BEYOND
	EXISTING GRATE WALKWAY

- REPAIR NOTES AND LEGEND**
- | | |
|------|---|
| DM # | DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501) |
| CC # | CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET
D INDICATES CRACKS GREATER THAN 1/4" IN WIDTH (REFER TO DETAIL 2/A501)
S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501) |
| SC # | SPALLED CONCRETE TO BE REPAIRED; # INDICATES SQUARE FEET (REFER TO DETAIL 4/A501) |
| 3 # | REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT AND PAINT; COLOR TO BE APPROVED BY OWNER. # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED) |
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| 9 | DRILL NEW FASTENER HOLE INTO CONCRETE FOOTING, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED) |
| 10 | REMOVE AND REPLACE EXISTING LANDING GRATING IN LIKE KIND. PAINT NEW LANDING GRATING; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED) |
- NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET



GALE

Gale Associates, Inc.
Engineers and Planners

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Boston Baltimore Orlando Hartford

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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300-Moody		
	A100s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ACP / ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	AS NOTED		

SHEET TITLE

**MOODY SCHOOL
FIRE ESCAPE
PLANS**

DRAWING NO.
A108

4 5 6

NORTH FIRE ESCAPE — FIRST FLOOR PLAN

SCALE: 1/2" = 1'-0"

0 1' 2' 4'

DM
21

10
A502

UP

UP

4'-4"±

14'-10"±

10'-6"±

6'-0"±

4'-0"±

8'-2"±

6'-2"±

2'-6"±

22'-10"±

PLAN
NORTH

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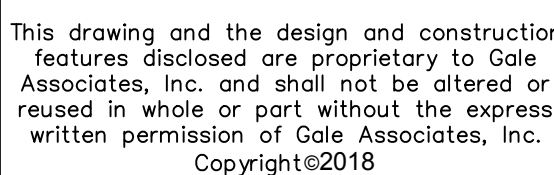
LEGEND	
	EXISTING BRICK MASONRY WALL
	EXISTING CONCRETE FOOTING WITH COLUMN
	EXISTING COLUMN
	EXISTING STAIR AND STRINGER CHANNELS
	EXISTING CHANNEL
	EXISTING HANDRAILS
	EXISTING EGRESS DOOR
	EXISTING FIRE ESCAPE BEYOND
	EXISTING GRATE WALKWAY
	BOLLARD AND CAST-IN-PLACE CONCRETE PIER
	APPROXIMATE LIMITS OF BITUMINOUS CONCRETE TO BE REMOVED AND REPLACED AS REQUIRED TO INSTALL NEW BOLLARDS

REPAIR NOTES AND LEGEND

DM #	DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
CC #	CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET
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2	CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO THE HANDRAIL. MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED) (REFER TO DETAIL 5/A501)
3 #	REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT; PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
4	INSTALL NEW COLUMN CAP, PROFILE AND COLOR TO MATCH THE ADJACENT EXISTING COLUMN CAPS. (PAINTING FILED SUB-BID REQUIRED)
5	REMOVE AND REPLACE STAIR TREADS, STRINGERS AND HANDRAILS IN LIKE KIND AND PROVIDE NEW CONCRETE SONOTUBE FOOTINGS AT BASE OF STRINGERS; PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED) (REFER TO DETAIL 6/A501 & 12/A502)
6	REMOVE DISPLACED ANGLE AND SCRAPE, PRIME AND PAINT STRINGER AND CHANNEL TO MATCH EXISTING COLOR. INSTALL NEW CLIP ANGLE WITH THROUGH-BOLTS. (PAINTING FILED SUB-BID REQUIRED)
7	DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE AND INSTALL NEW EXPANSION ANCHOR. PAINT TO MATCH EXISTING COLOR. (PAINTING FILED SUB-BID REQUIRED)

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NORTH FIRE ESCAPE



PROJECT	FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE CARDINAL O'CONNELL, GREEN, MOLLOY, MOODY, AND WASHINGTON SCHOOLS LOWELL, MA 01852
OWNER	CITY OF LOWELL ENGINEERING DEPARTMENT 375 MERRIMACK STREET LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.		835300	
CADD FILE		Washington A100s	
DESIGNED BY		ACP/AEO	
DRAWN BY		ACP/ALP	
CHECKED BY		AE0 / SRM	
DATE		12/13/2019	
DRAWING SCALE		AS NOTED	

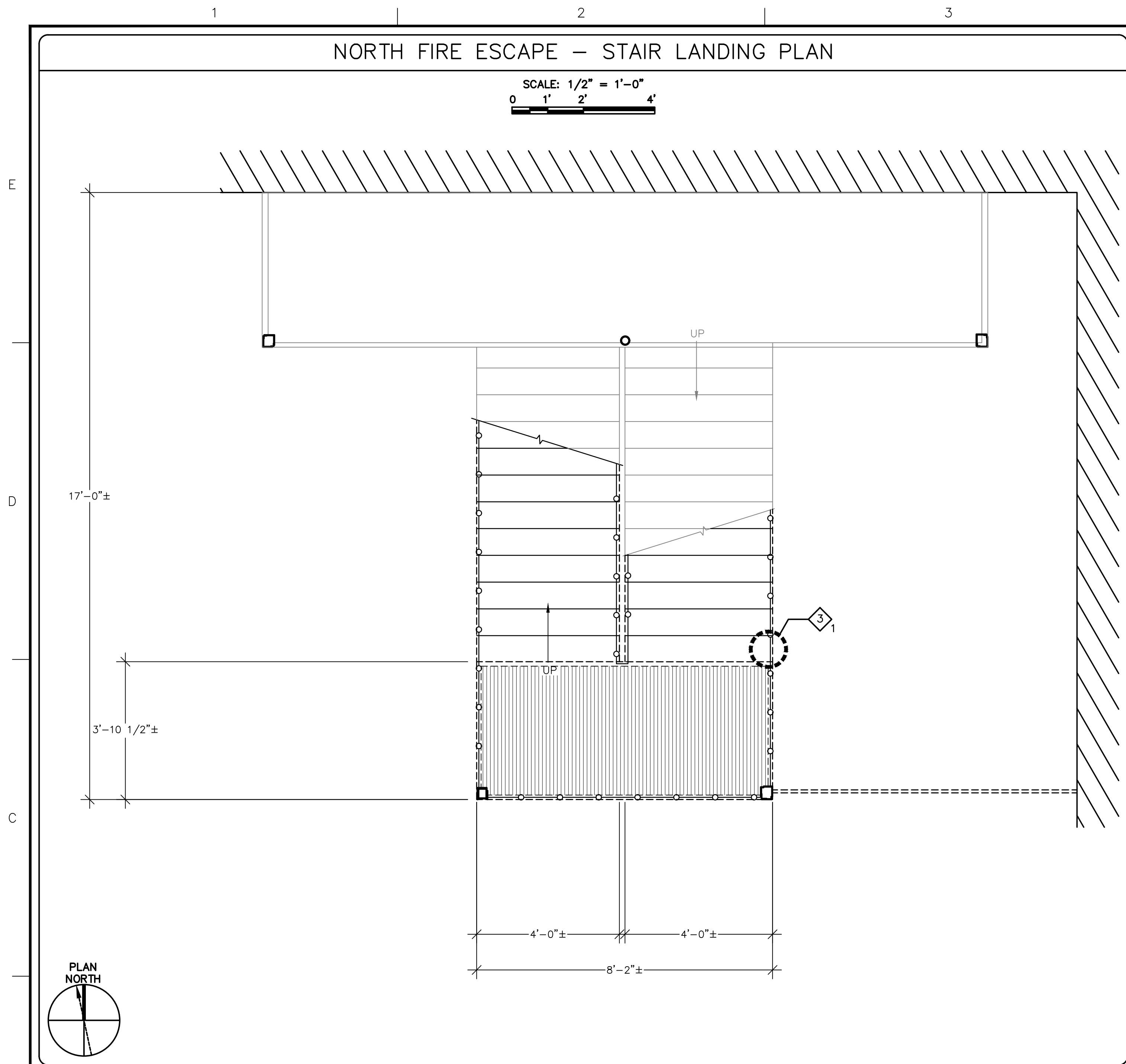
GRAPHIC SCALE

SHEET TITLE

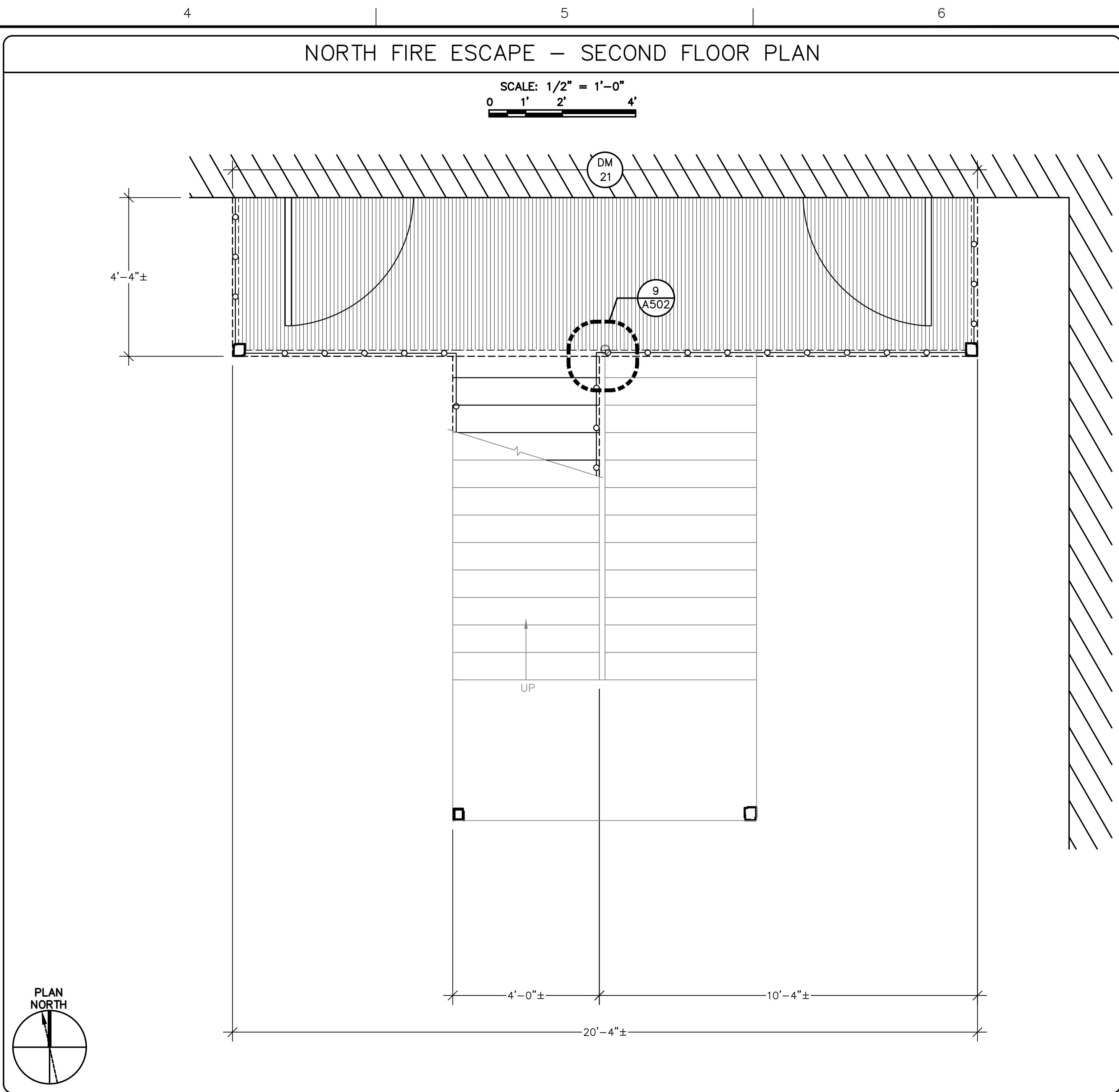
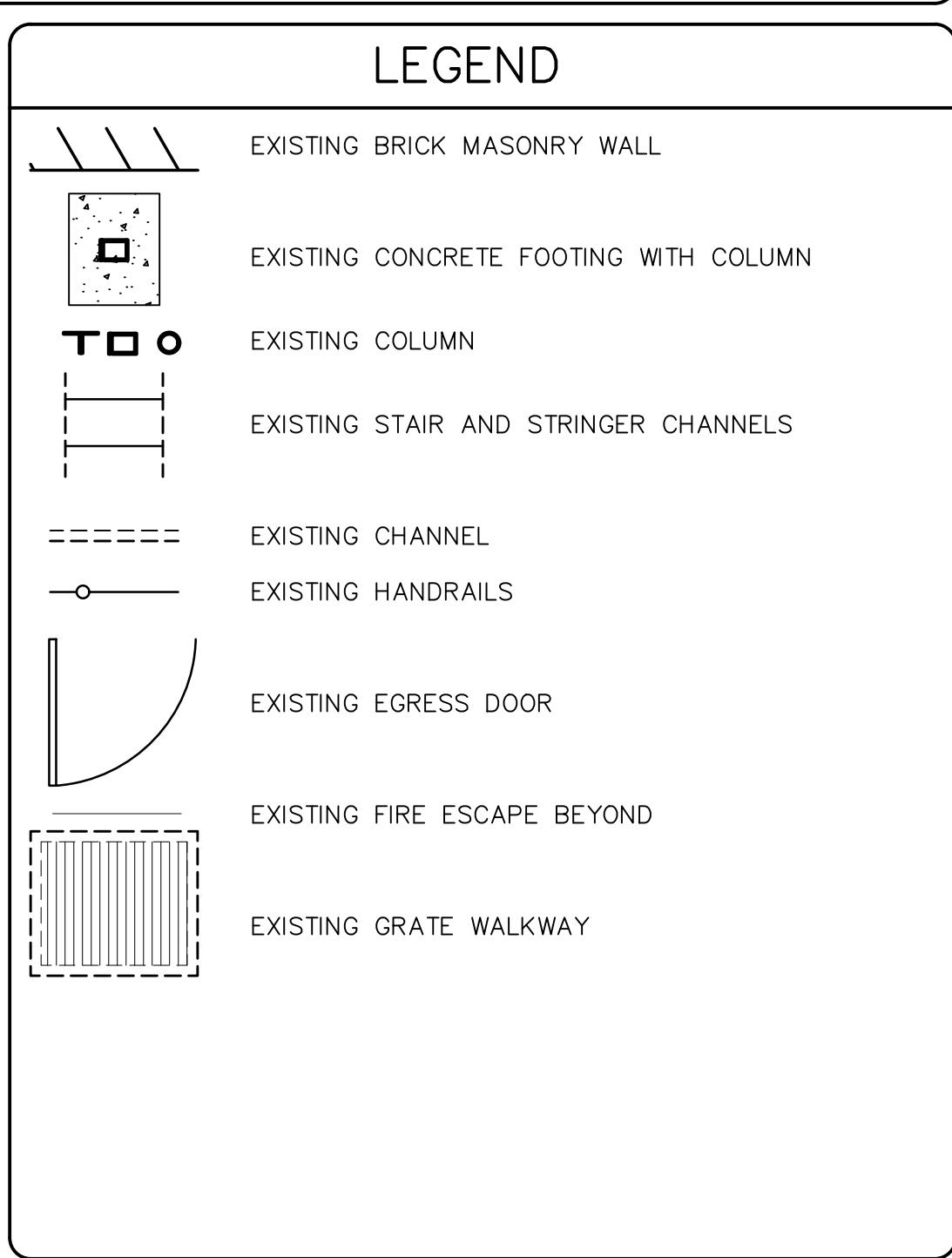
WASHINGTON
SCHOOL NORTH
FIRE ESCAPE
PLANS

DRAWING NO.

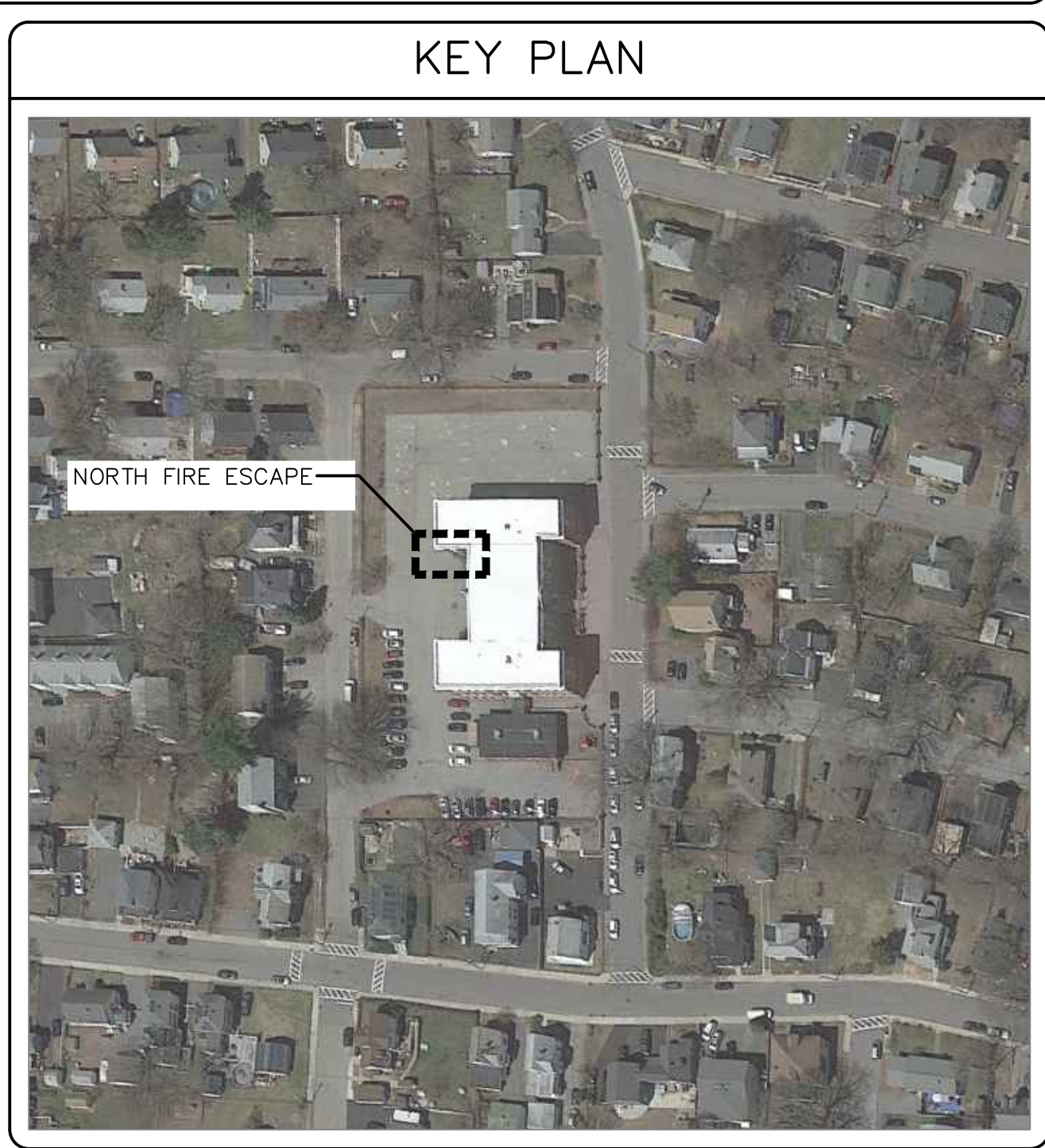
A109



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PROJECT
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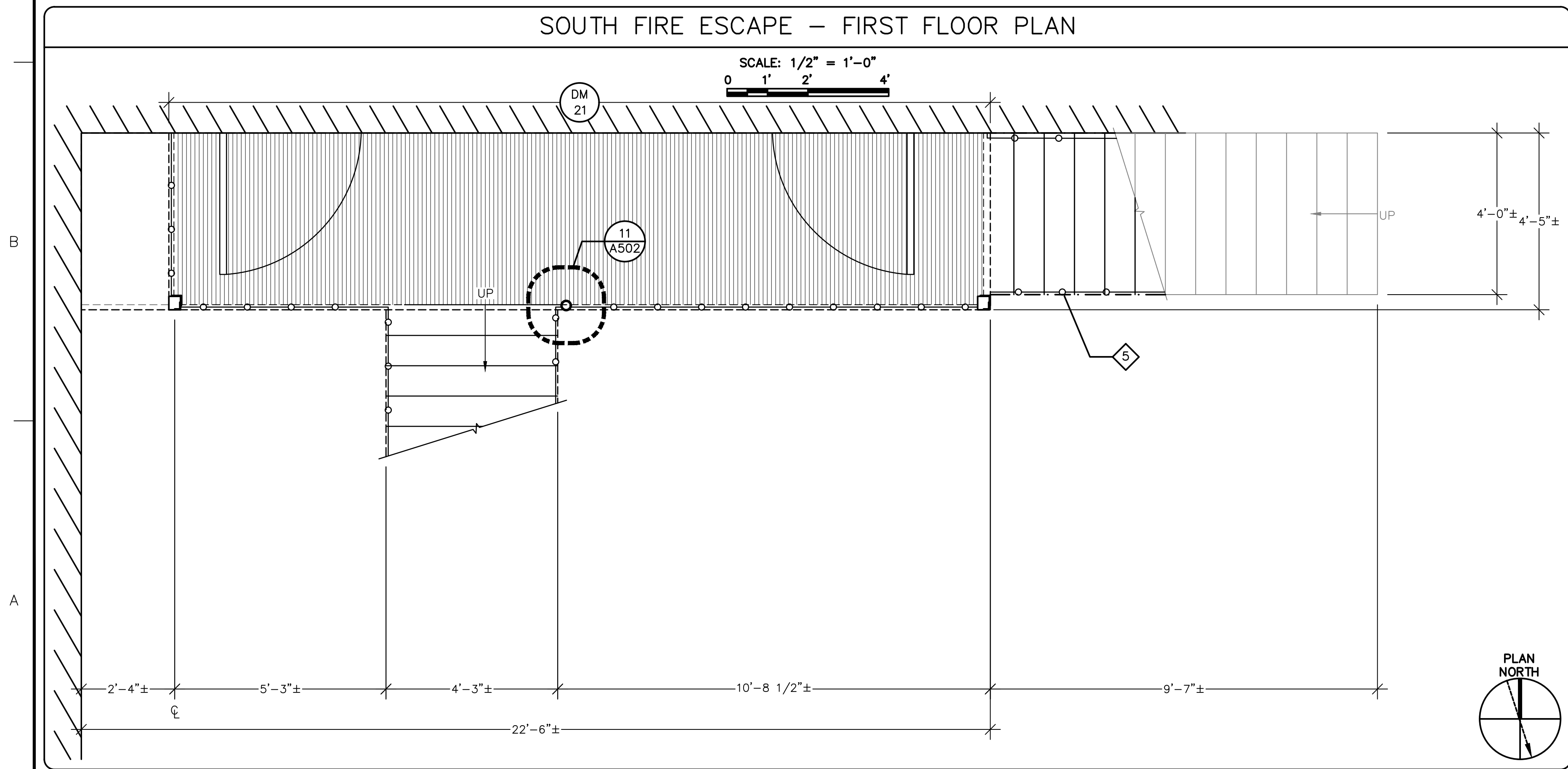
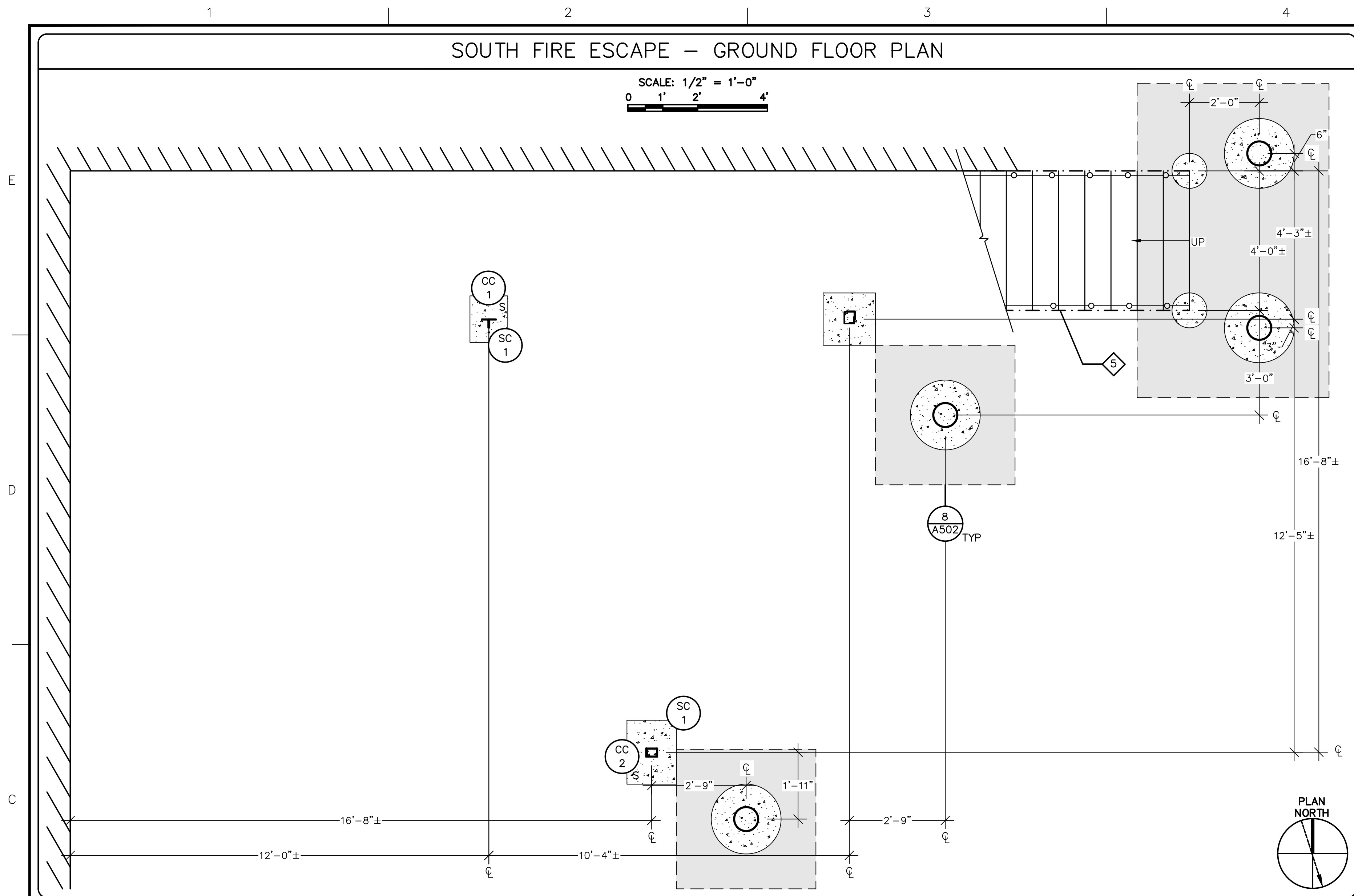
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	Washington A100s		
DESIGNED BY	ACP/AEO		
DRAWN BY	ACP/ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	AS NOTED		

GRAPHIC SCALE

SHEET TITLE
WASHINGTON SCHOOL NORTH FIRE ESCAPE PLANS

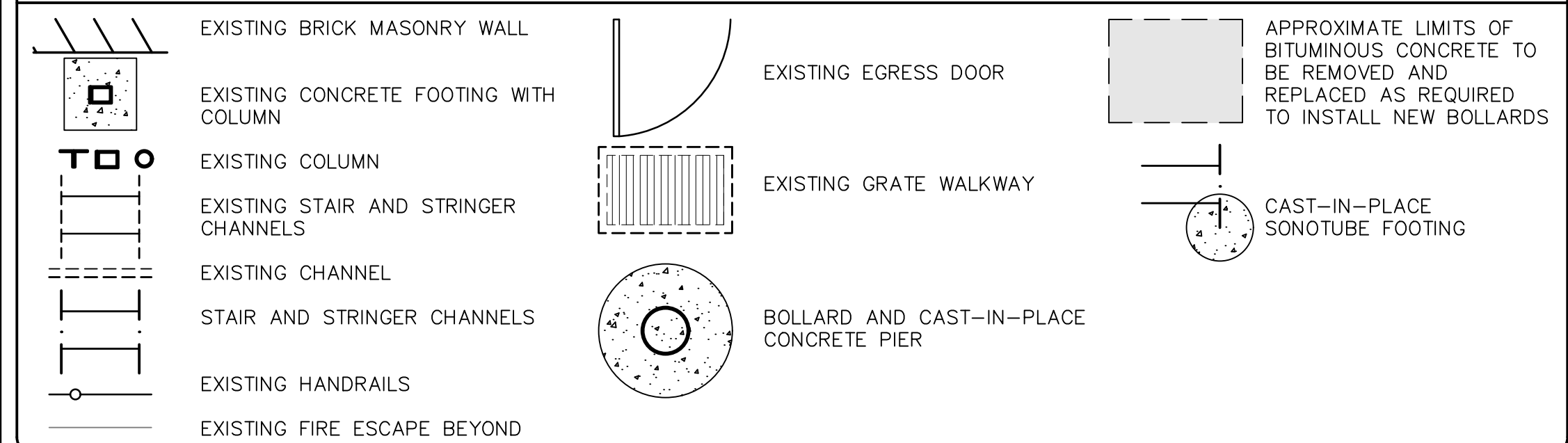
DRAWING NO.
A110



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LEGEND



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KEY PLAN



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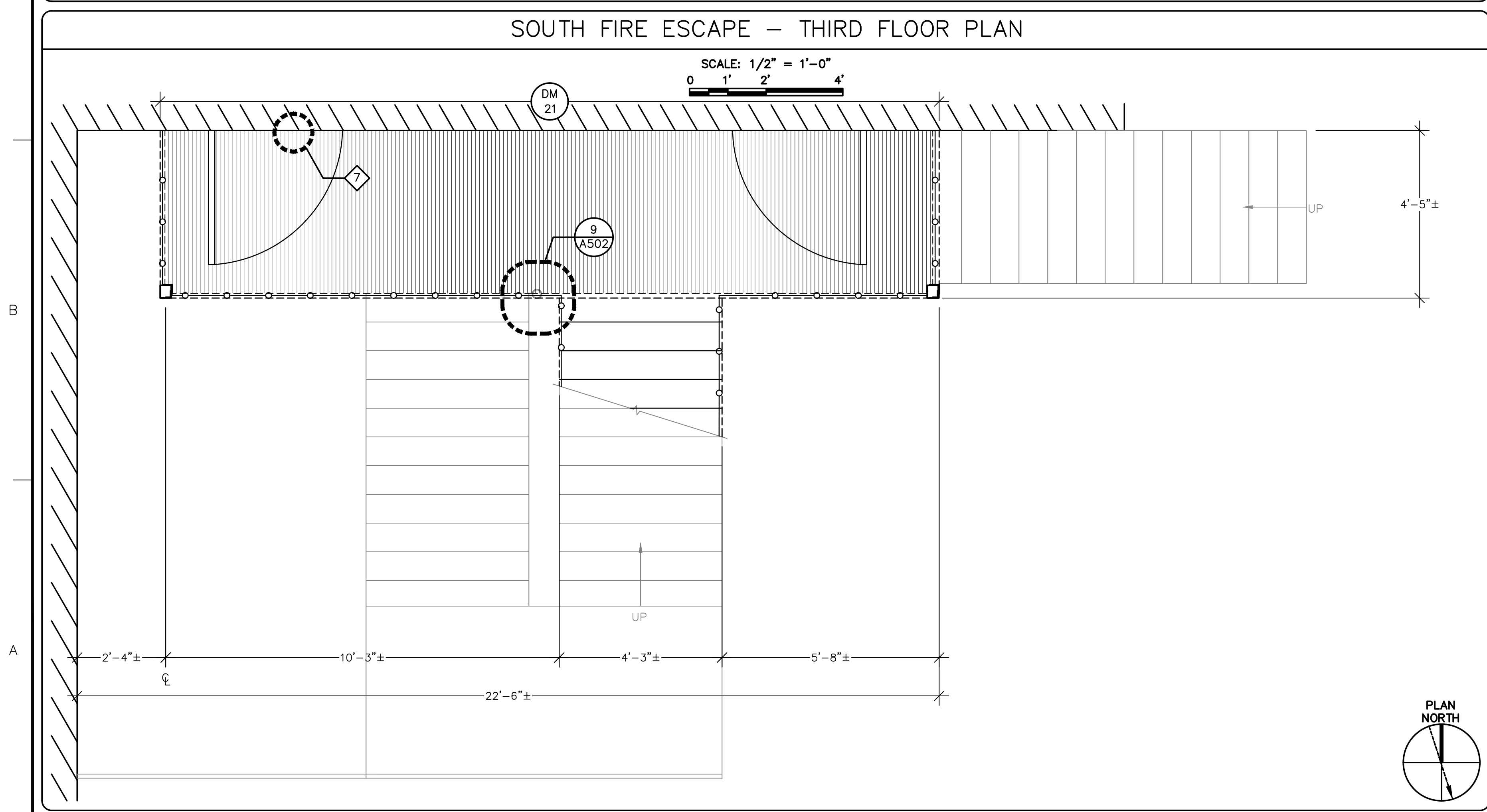
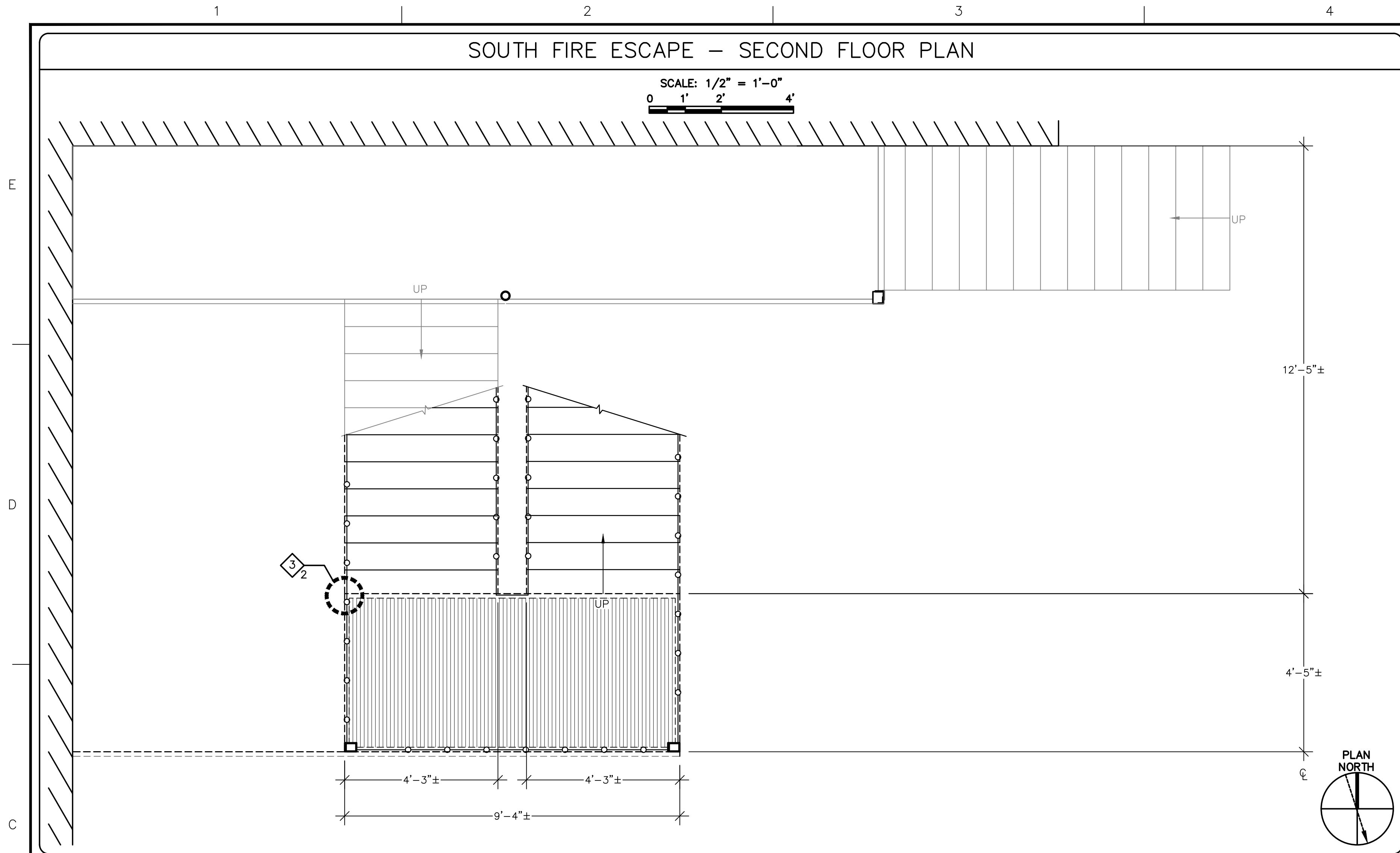
GRAPHIC SCALE

SHEET TITLE

WASHINGTON SCHOOL SOUTH FIRE ESCAPE PLANS

DRAWING NO.

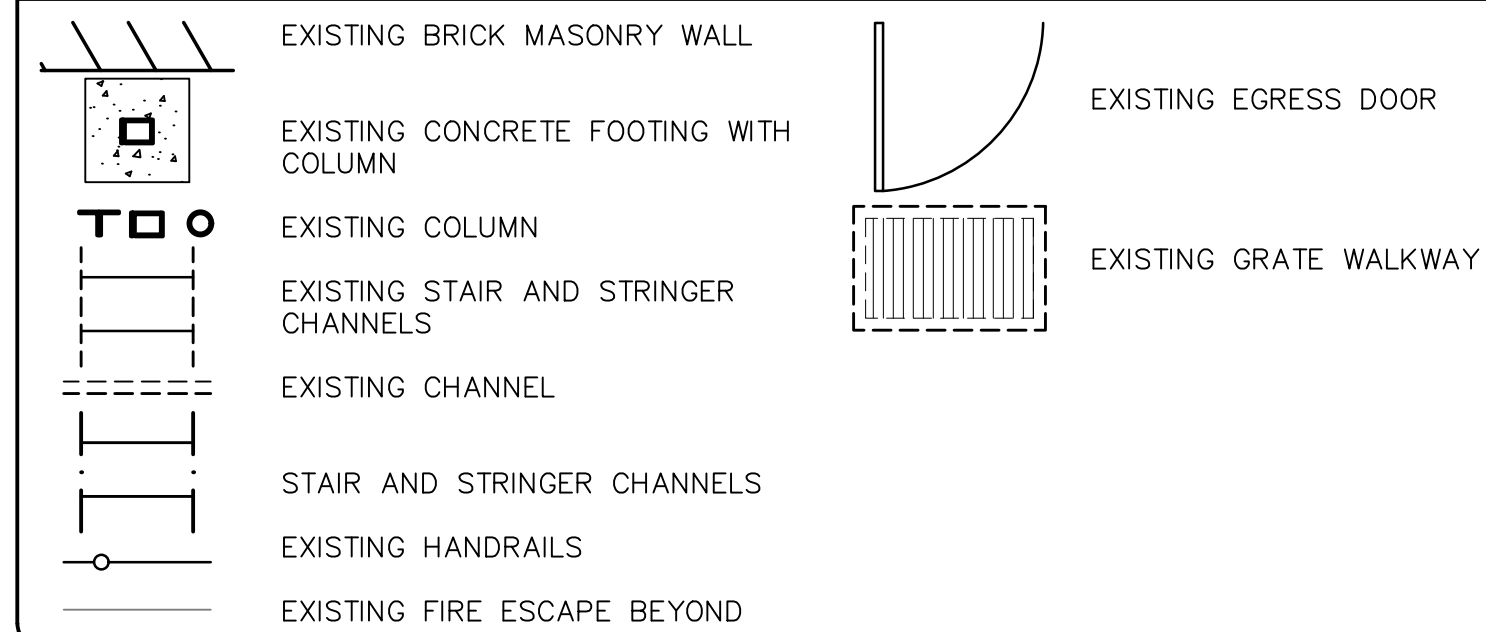
A111



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LEGEND



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Boston Baltimore Orlando Hartford

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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE CARDINAL O'CONNELL, GREEN, MOLLOY, MOODY, AND WASHINGTON SCHOOLS LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	Washington A100s		
DESIGNED BY	ACP/AEO		
DRAWN BY	ALP/ACP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	AS NOTED		

GRAPHIC SCALE

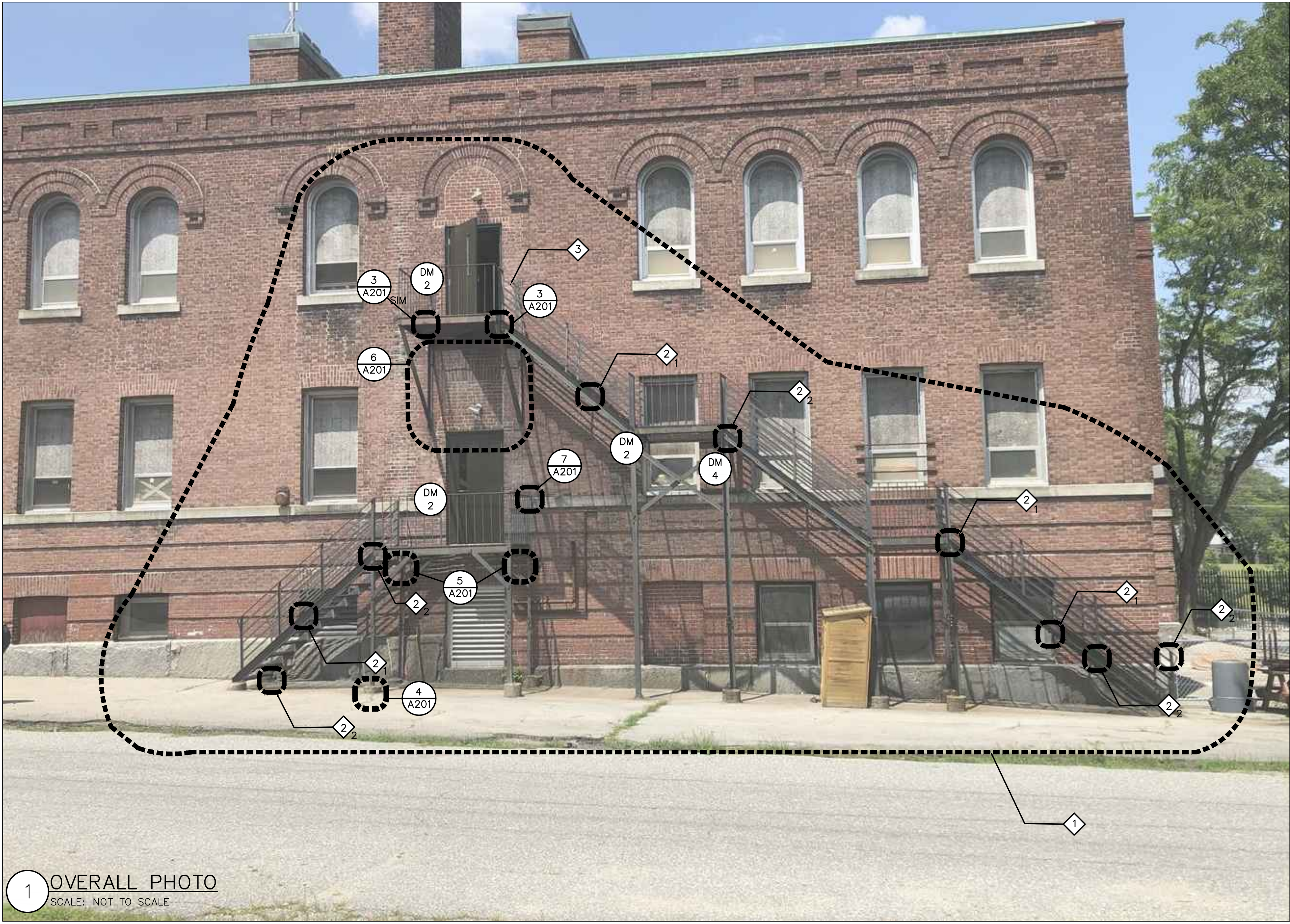
SHEET TITLE

WASHINGTON
SCHOOL SOUTH
FIRE ESCAPE
PLANS

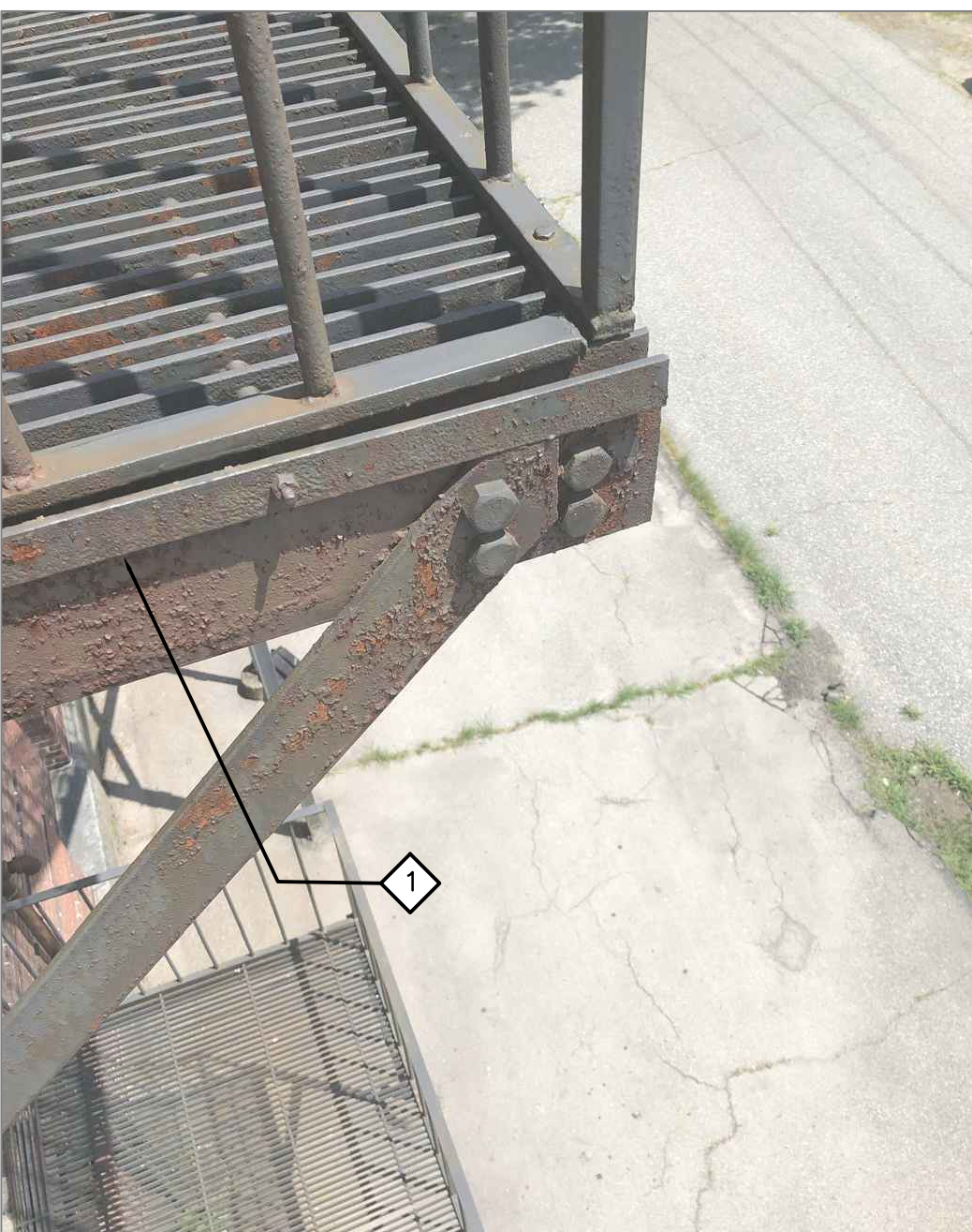
DRAWING NO.

A112

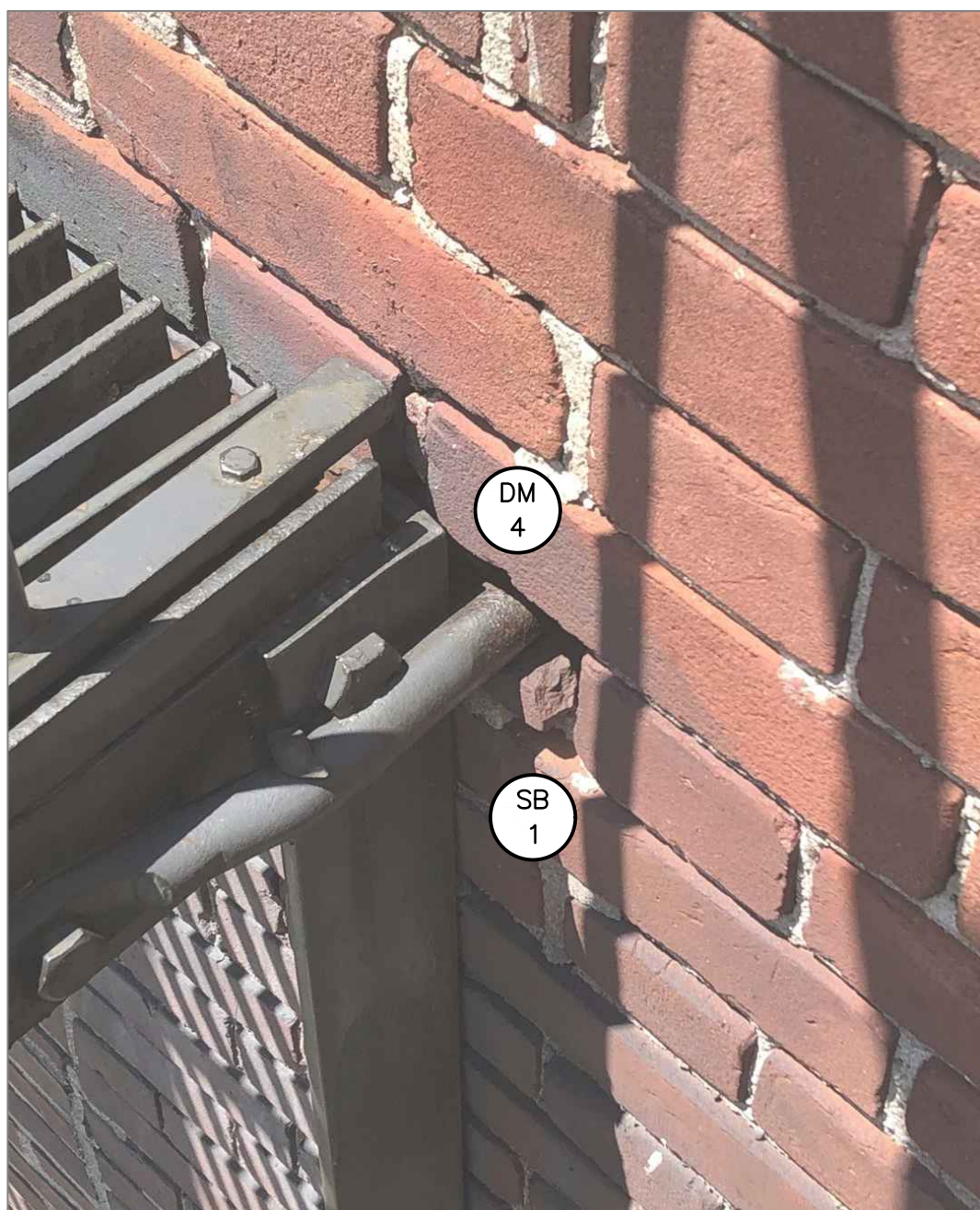
CARDINAL O'CONNEL FIRE ESCAPE



1 OVERALL PHOTO
SCALE: NOT TO SCALE



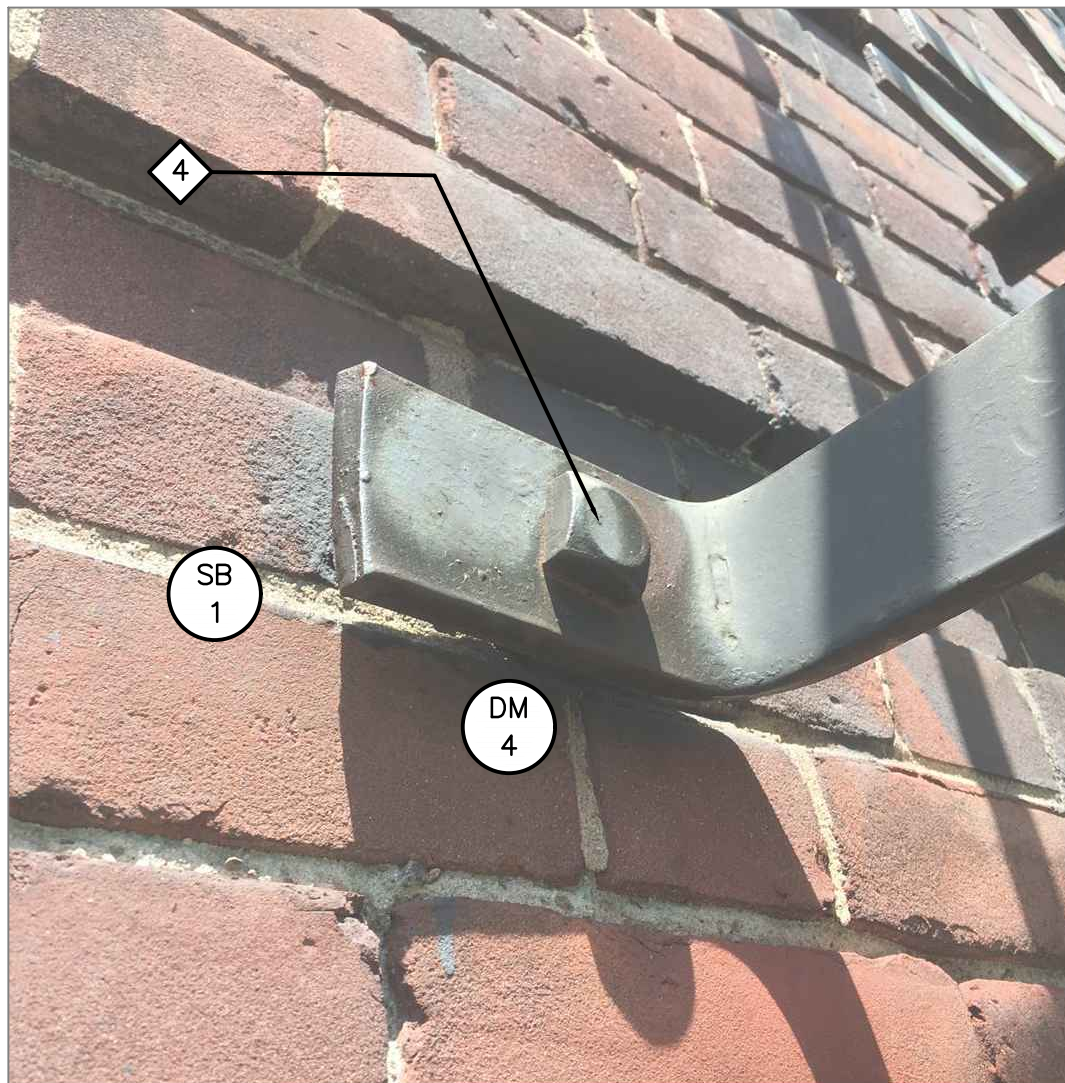
2 TYPICAL RUSTING
SCALE: NOT TO SCALE



3 DETERIORATED BRICK AND MORTAR AT PENETRATION
SCALE: NOT TO SCALE



4 CONCRETE FOOTING
SCALE: NOT TO SCALE

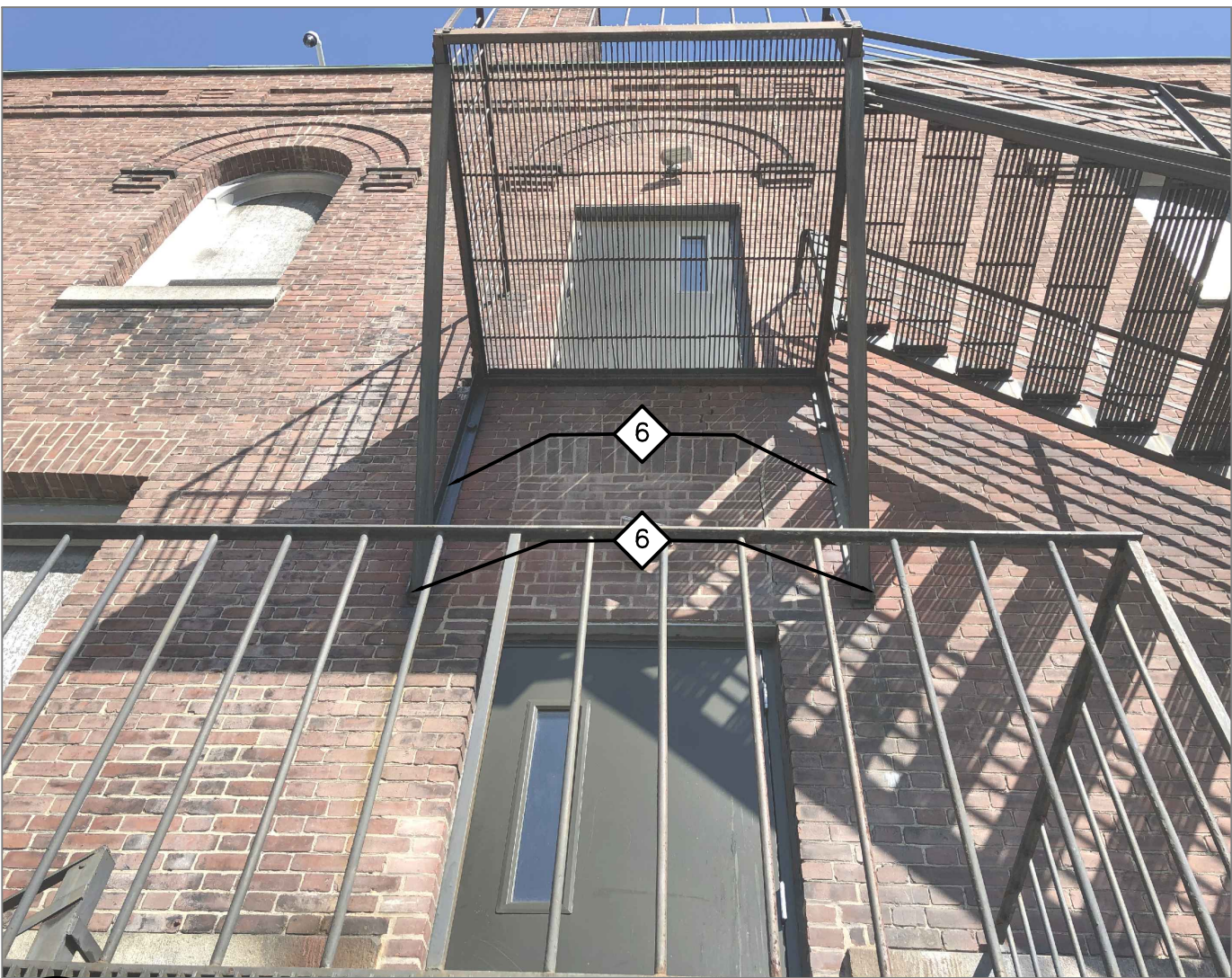


5 DISPLACED EXPANSION BOLT
SCALE: NOT TO SCALE

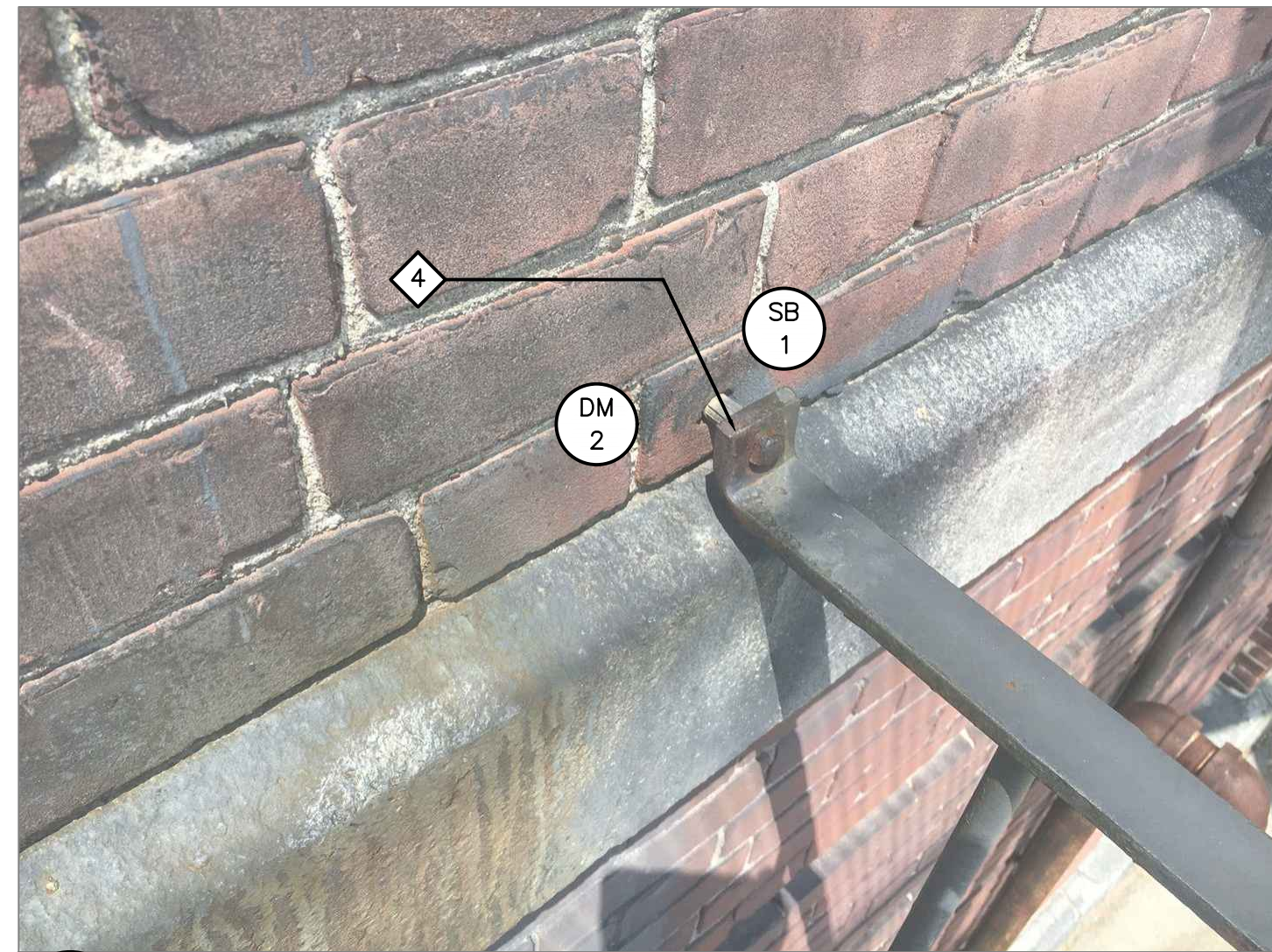
REPAIR NOTES AND LEGEND

- SB # SPALLS BRICK TO BE REPLACED; # INDICATES UNIT QUANTITY
- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET
- S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- 1 SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 2 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 3 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO HANDRAIL. MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (REFER TO DETAIL 5/A501) (PAINTING FILED SUB-BID REQUIRED)
- 4 REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 5 DRILL TWO (2) NEW FASTENER HOLES THROUGH RAILING BASE PLATE AND CHANNEL. INSTALL THROUGH BOLTS TO SECURE LANDING GRATE AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 6 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE. INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 7 DRILL NEW FASTENER HOLE INTO CONCRETE FOOTING, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 8 REMOVE AND REPLACE HANDRAIL IN LIKE KIND. SCRAPE EXISTING PAINT AND CLEAN DEBRIS FROM EXISTING STRINGER CHANNEL. WELD NEW HANDRAIL POSTS TO PREPARED EXISTING STRINGER CHANNEL AND PAINT NEW HANDRAIL AND PREPARED PORTIONS TO EXISTING STRINGER CHANNEL TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED)

KEY PLAN



6 THIRD FLOOR LANDING
SCALE: NOT TO SCALE



7 DISPLACED EXPANSION BOLT
SCALE: NOT TO SCALE

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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE CARDINAL O'CONNELL, GREEN, MOLLOY, MOODY, AND WASHINGTON SCHOOLS LOWELL, MA 01852
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT 375 MERRIMACK STREET LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300	835300-Cardinal	
CADD FILE	A200s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

SHEET TITLE

CARDINAL O'CONNELL SCHOOL
FIRE ESCAPE
ELEVATIONS AND
DETAIL PHOTOS

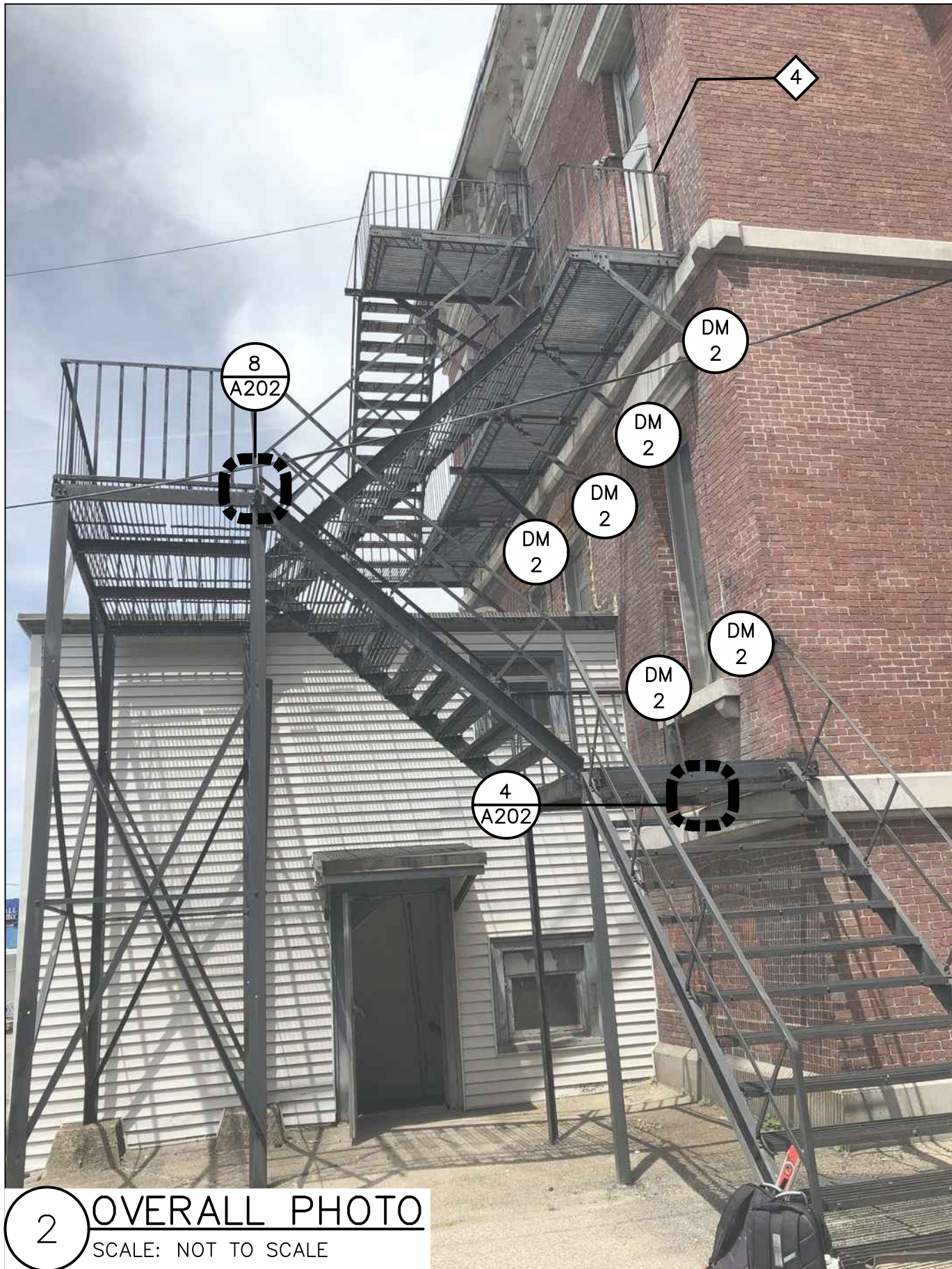
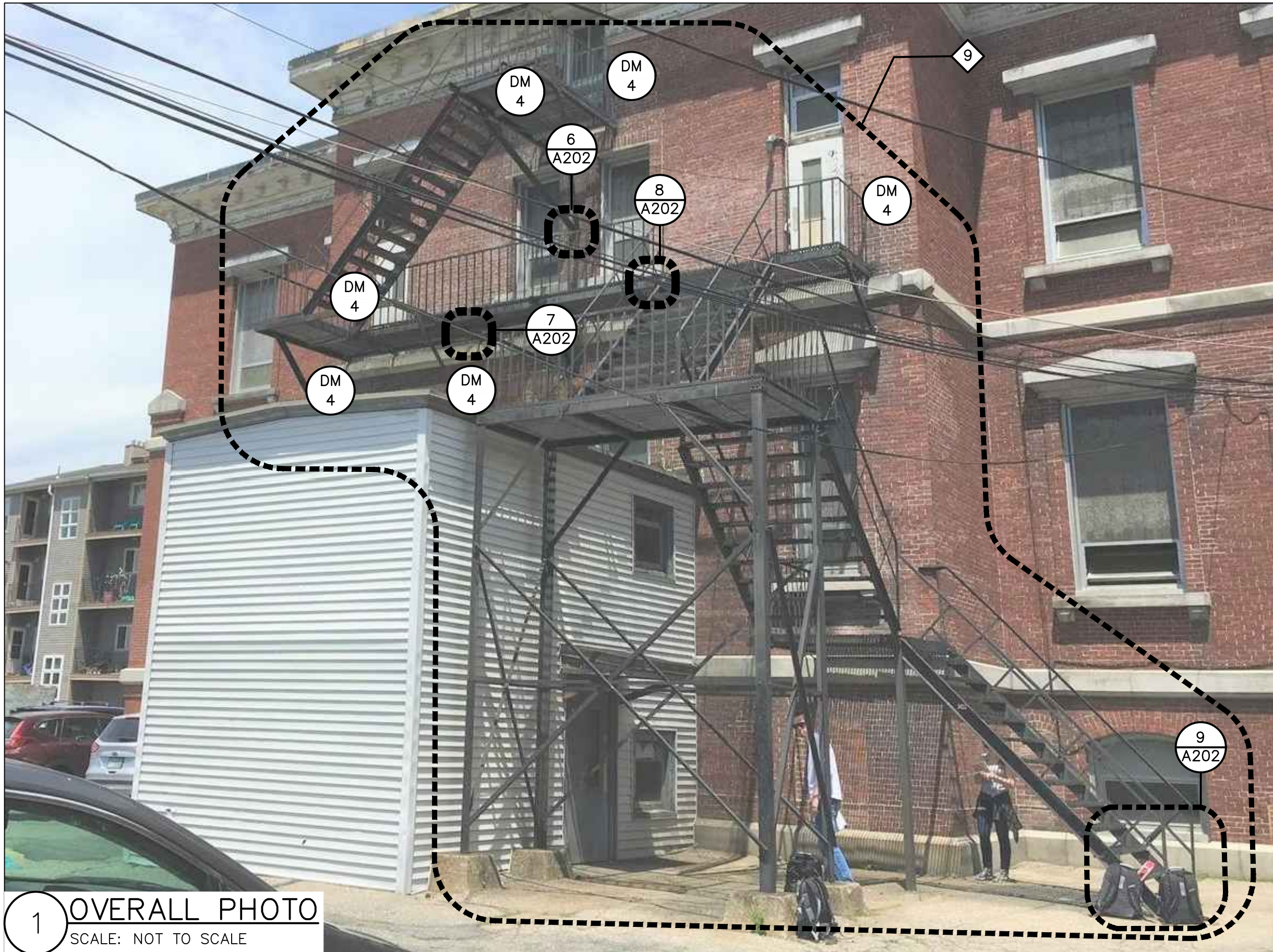
DRAWING NO.

A201

GREEN FIRE ESCAPE

GREEN FIRE ESCAPE

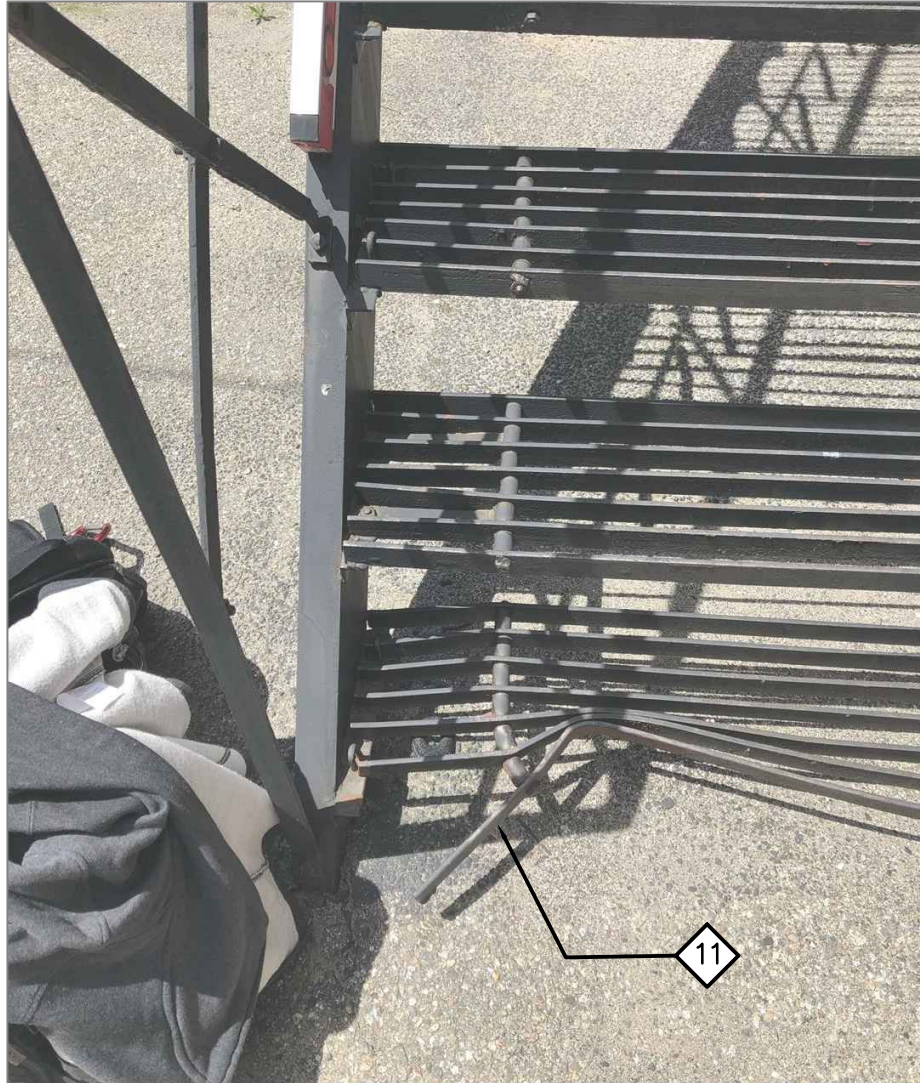
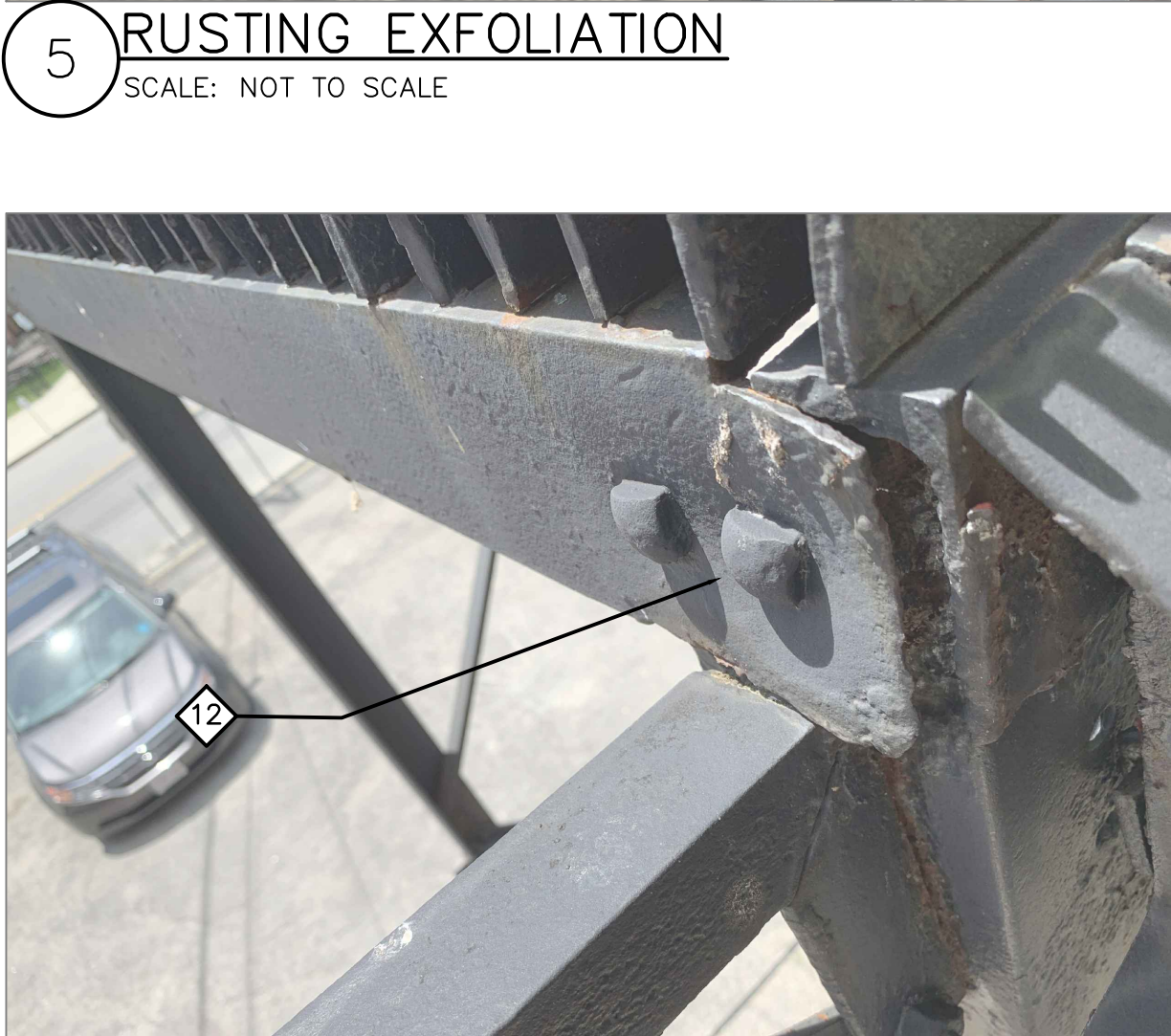
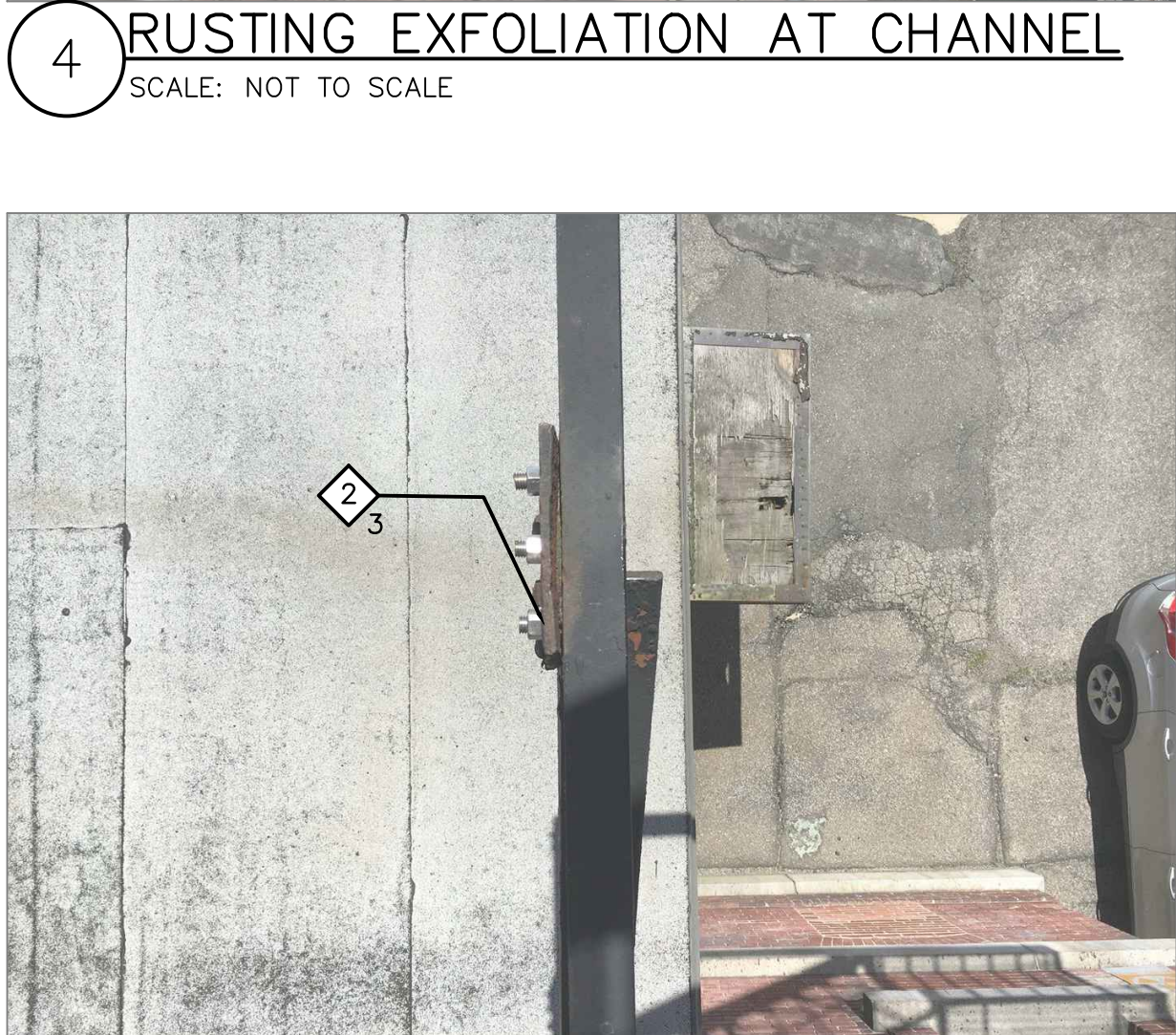
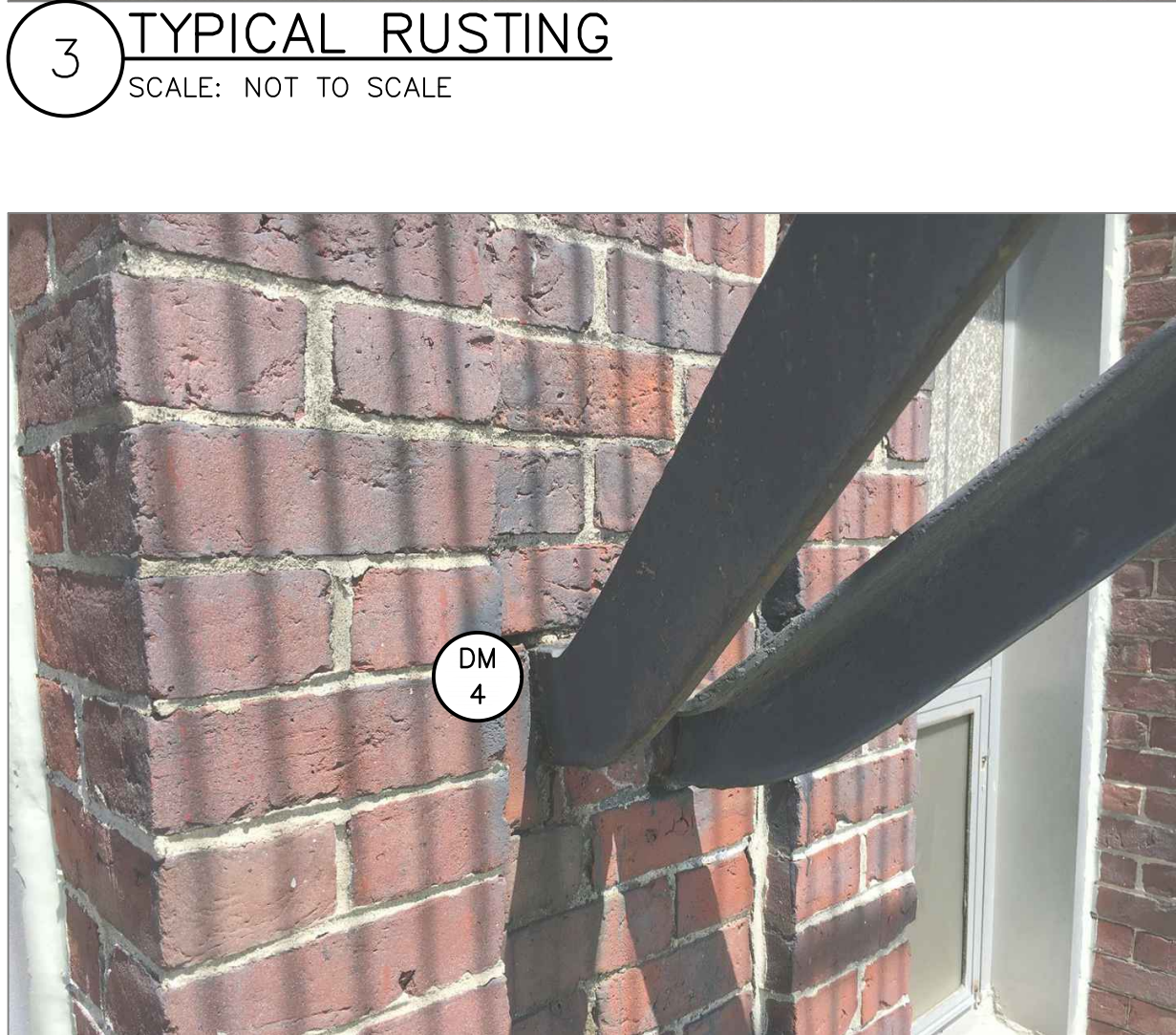
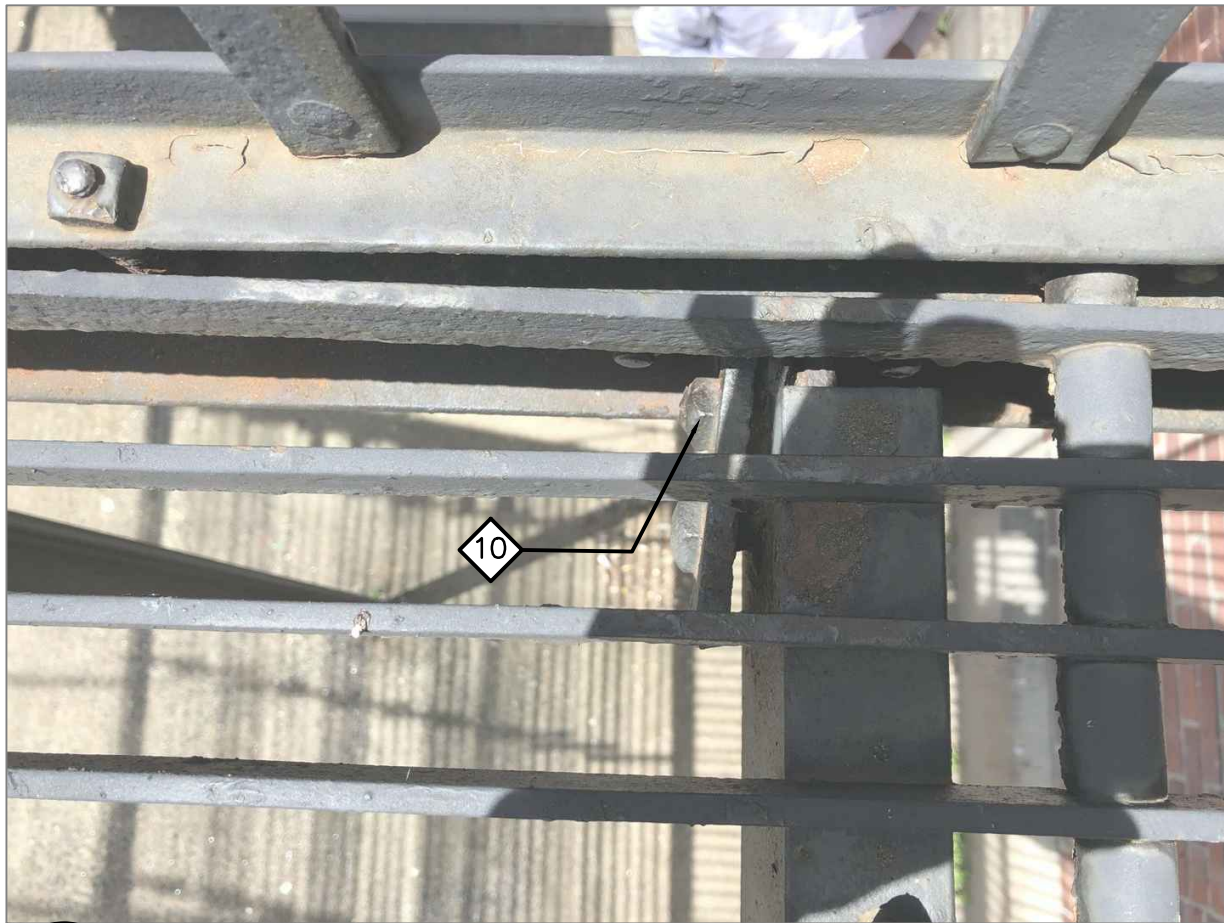
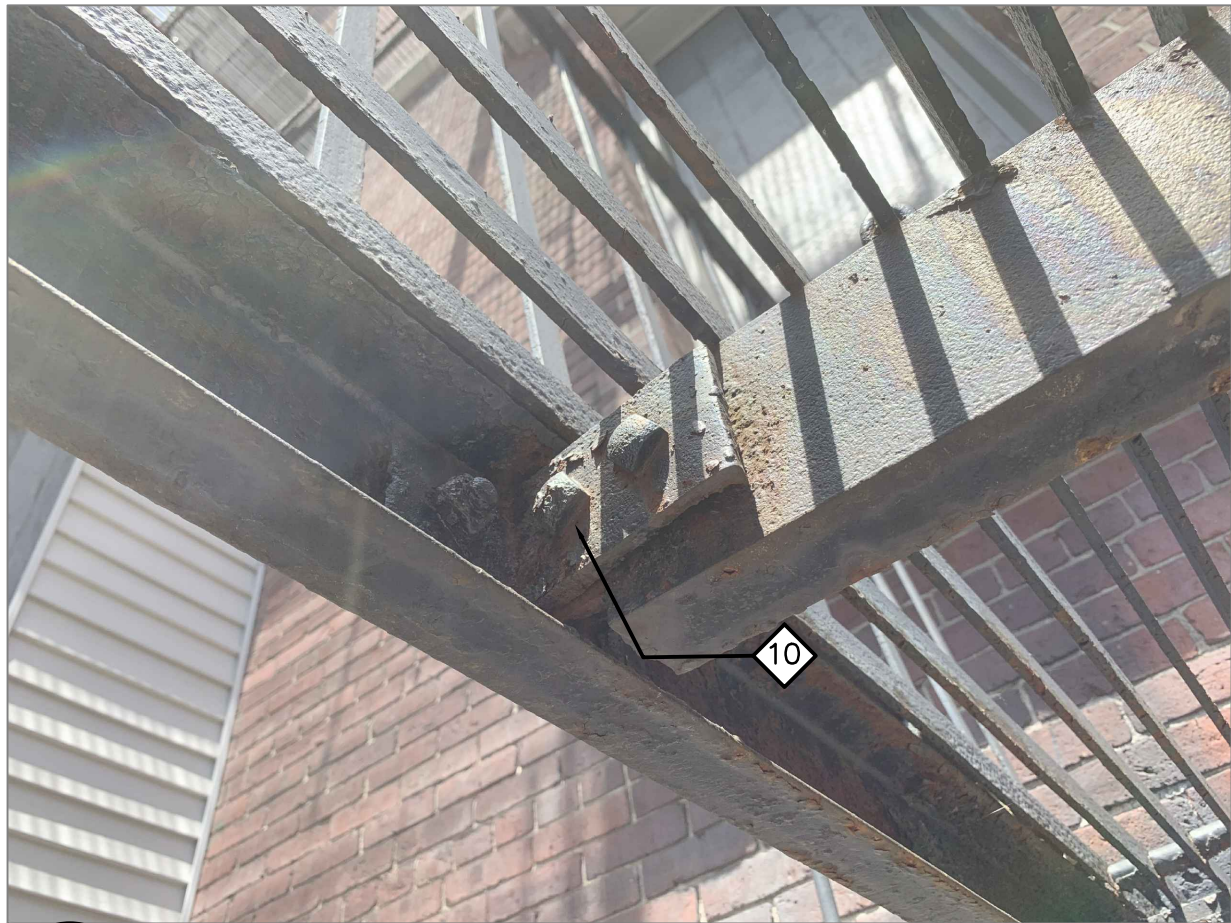
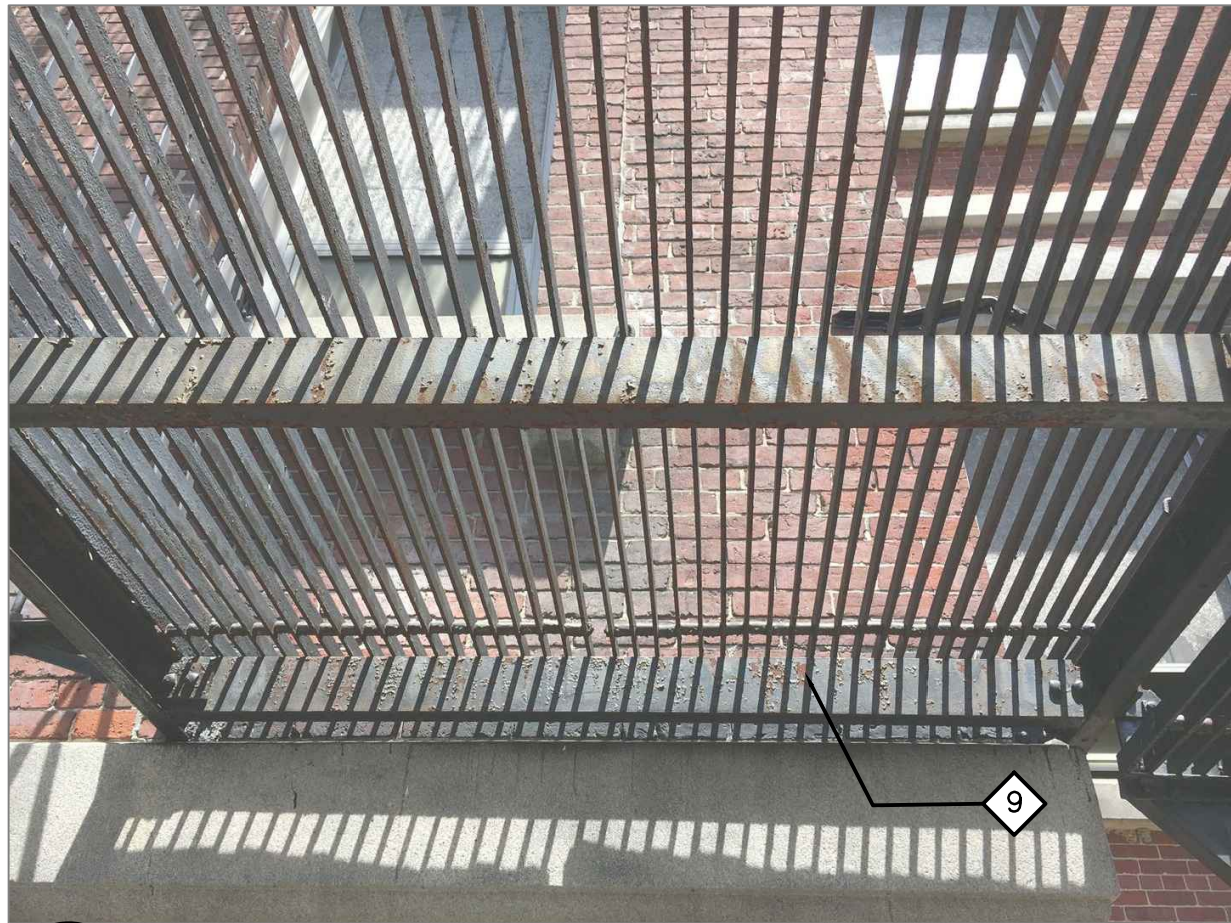
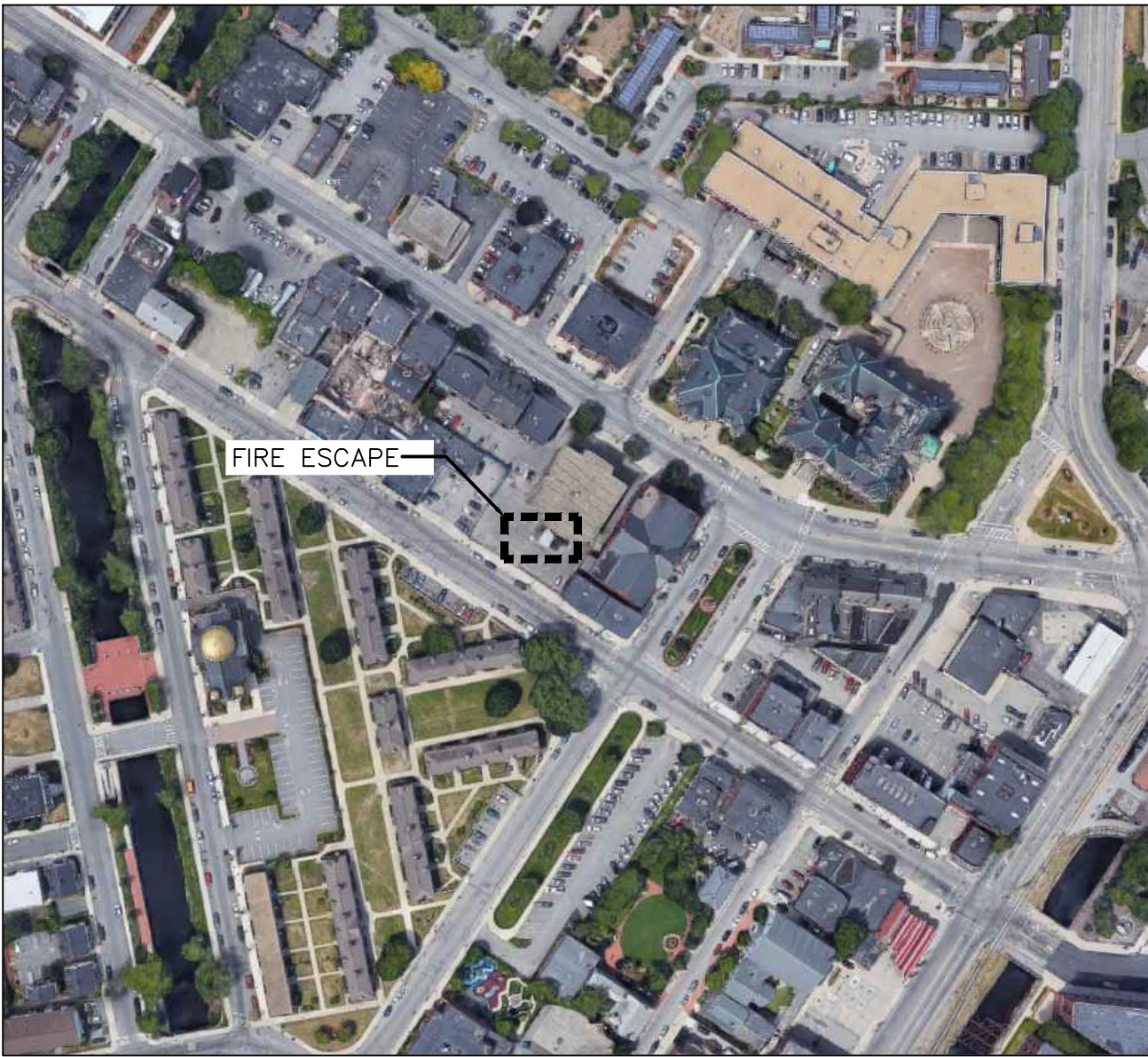
REPAIR NOTES AND LEGEND



- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET. (REFER TO DETAIL 1/A501)
- 2 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY
- 4 REMOVE AND REPLACE MISSING OR DISPLACED EXPANSION BOLT AND PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 9 SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 10 REMOVE EXISTING CLIP ANGLES. SCRAPE, PRIME AND PAINT THE ADJACENT STEEL AND INSTALL NEW CLIP ANGLES AND THROUGH BOLTS TO MATCH THE EXISTING. PAINT NEW STEEL ONCE WORK IS COMPLETE, COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 11 REMOVE AND REPLACE DAMAGE STAIR TREAD IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 12 CUT AND REMOVE APPROXIMATELY THREE INCHES (3") OF THE CORNER EXTENT FROM THE CHANNEL. CLEAN EXPOSED SURFACES OF ALL RUST, PRIME AND PAINT. INSTALL NEW REINFORCING PLATE AND THROUGH BOLTS AS SHOWN IN DETAIL 7/A502 (PAINTING FILED SUB-BID REQUIRED)
- 13 REMOVE AND REPLACE DETERIORATED OR MISSING J-BOLTS IN LIKE KIND. PAINT COLOR TO BE AS APPROVED BY OWNER; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

KEY PLAN



Gale Associates, Inc.
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Boston Baltimore Orlando Hartford

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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300-Green		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

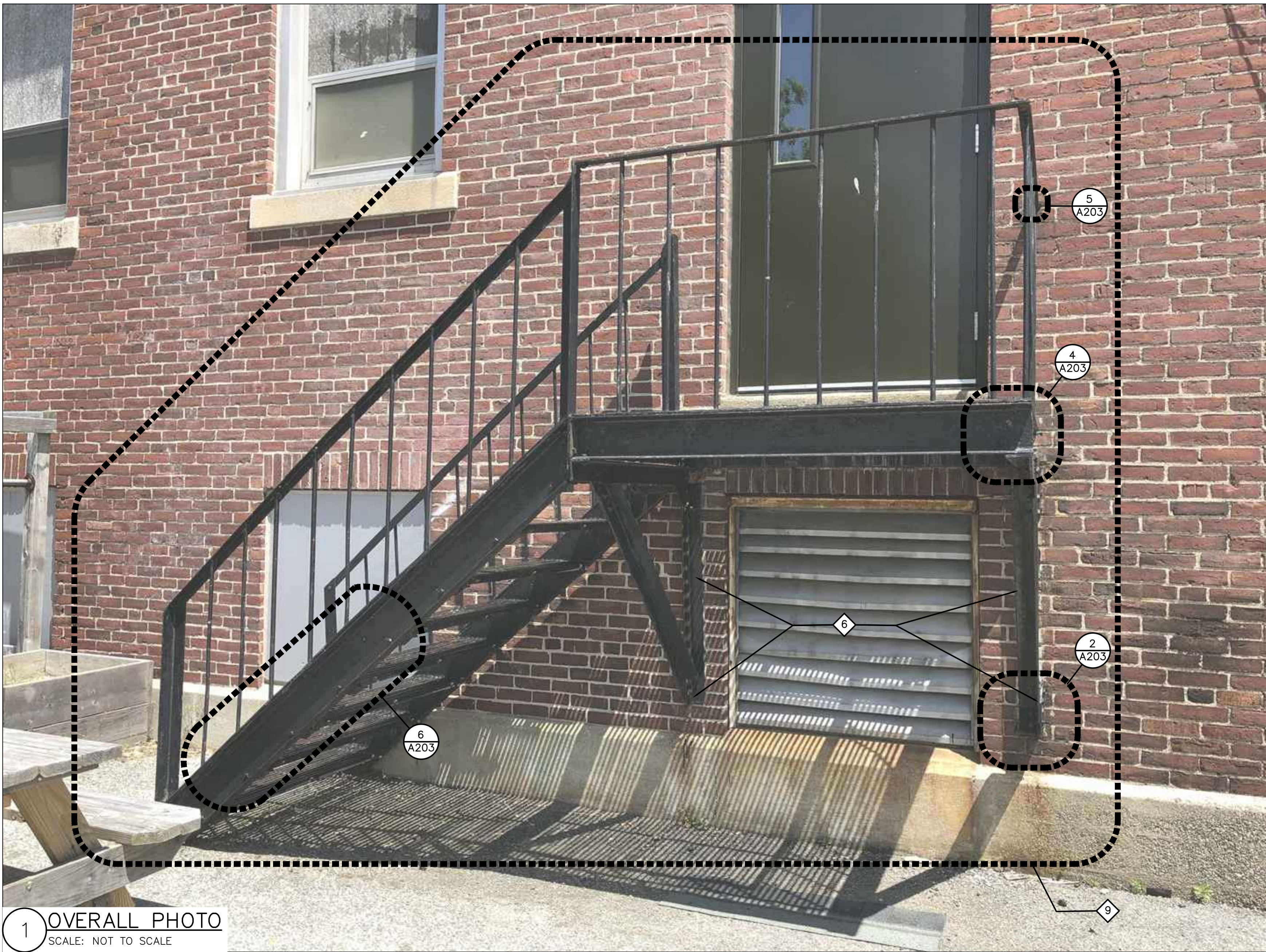
GRAPHIC SCALE

SHEET TITLE

GREEN SCHOOL
FIRE ESCAPE
ELEVATIONS AND
DETAIL PHOTOS

DRAWING NO.
A202

MOLLOY FIRE ESCAPE

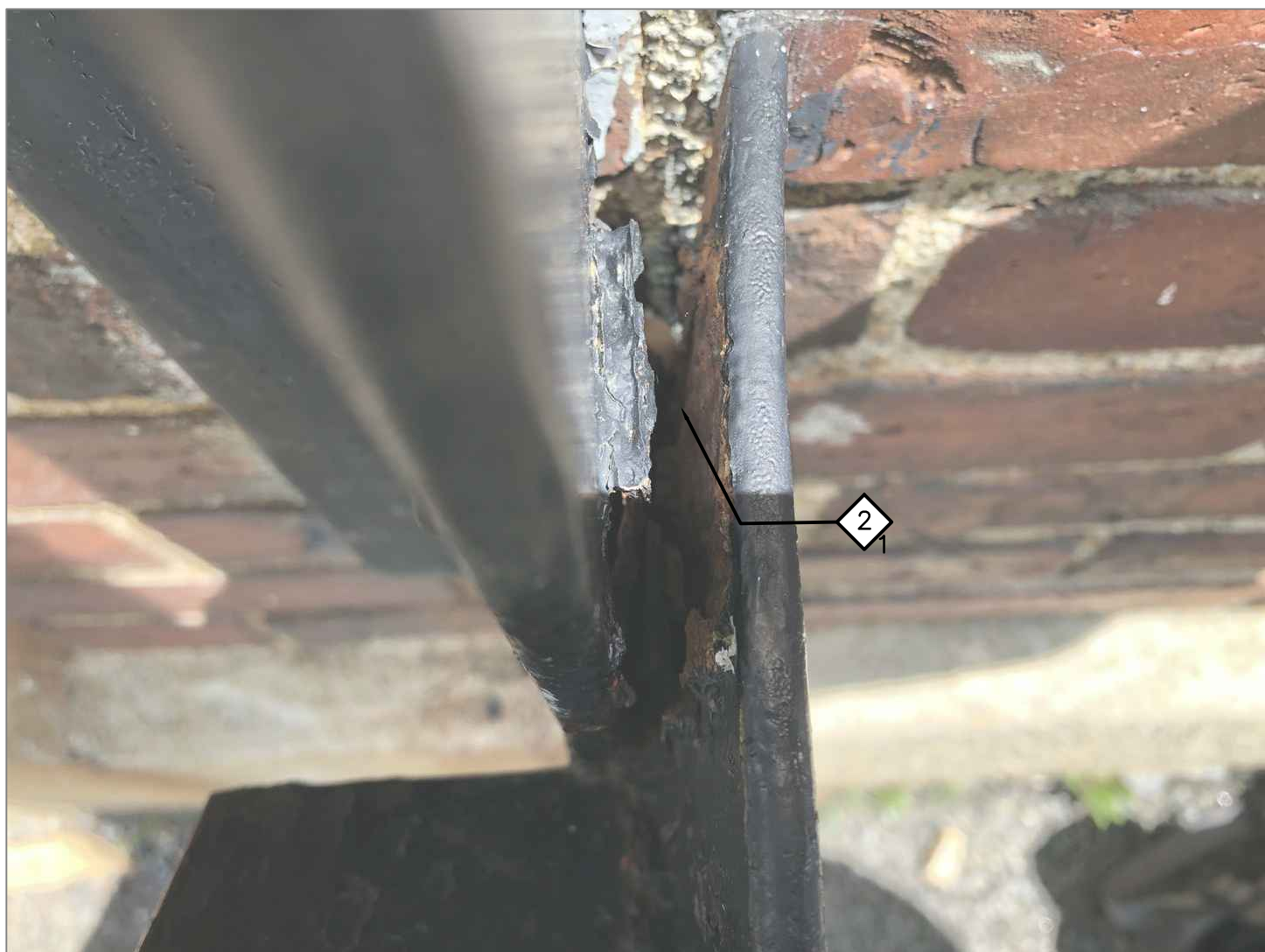


1 OVERALL PHOTO
SCALE: NOT TO SCALE

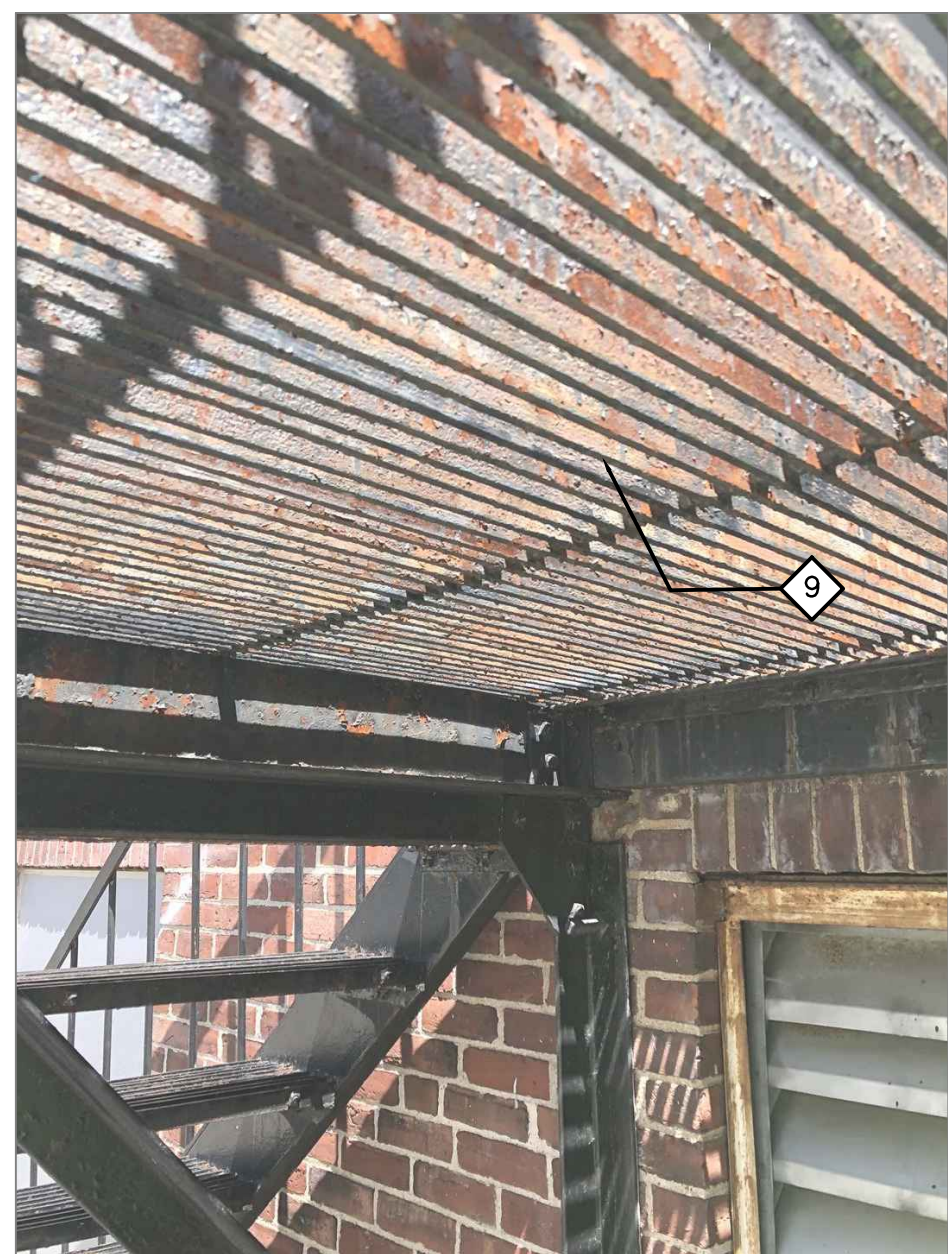
REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET. (REFER TO DETAIL 1/A501)
- 2 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT, PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 3 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO HANDRAIL, MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (REFER TO DETAIL 5/A501) (PAINTING FILED SUB-BID REQUIRED)
- 6 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE. INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 9 SCRAPE, PRIME AND PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE AS APPROVED BY THE OWNER. (PAINTING FILED SUB-BID REQUIRED)

KEY PLAN



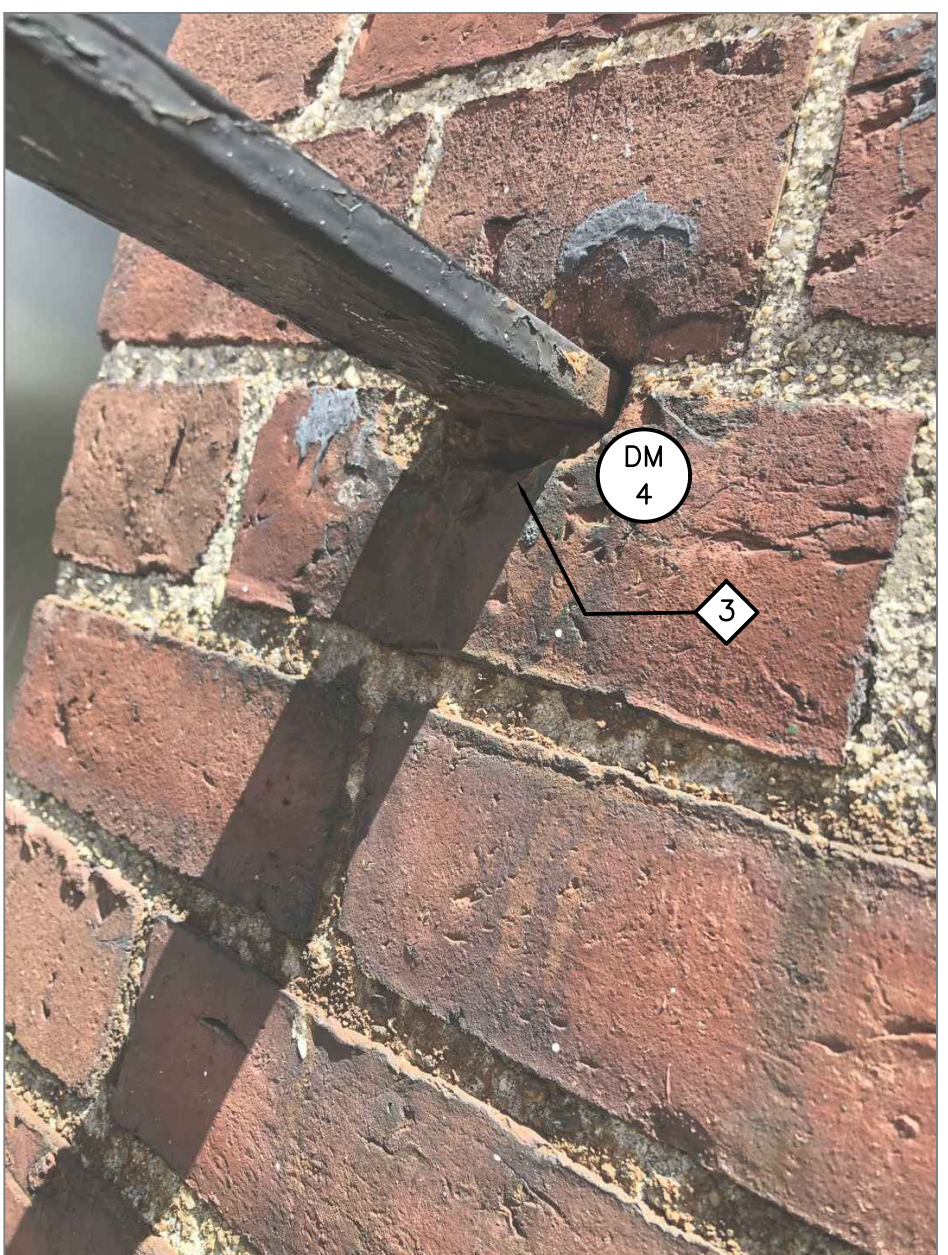
2 SHEARED OR DETERIORATED BOLTS
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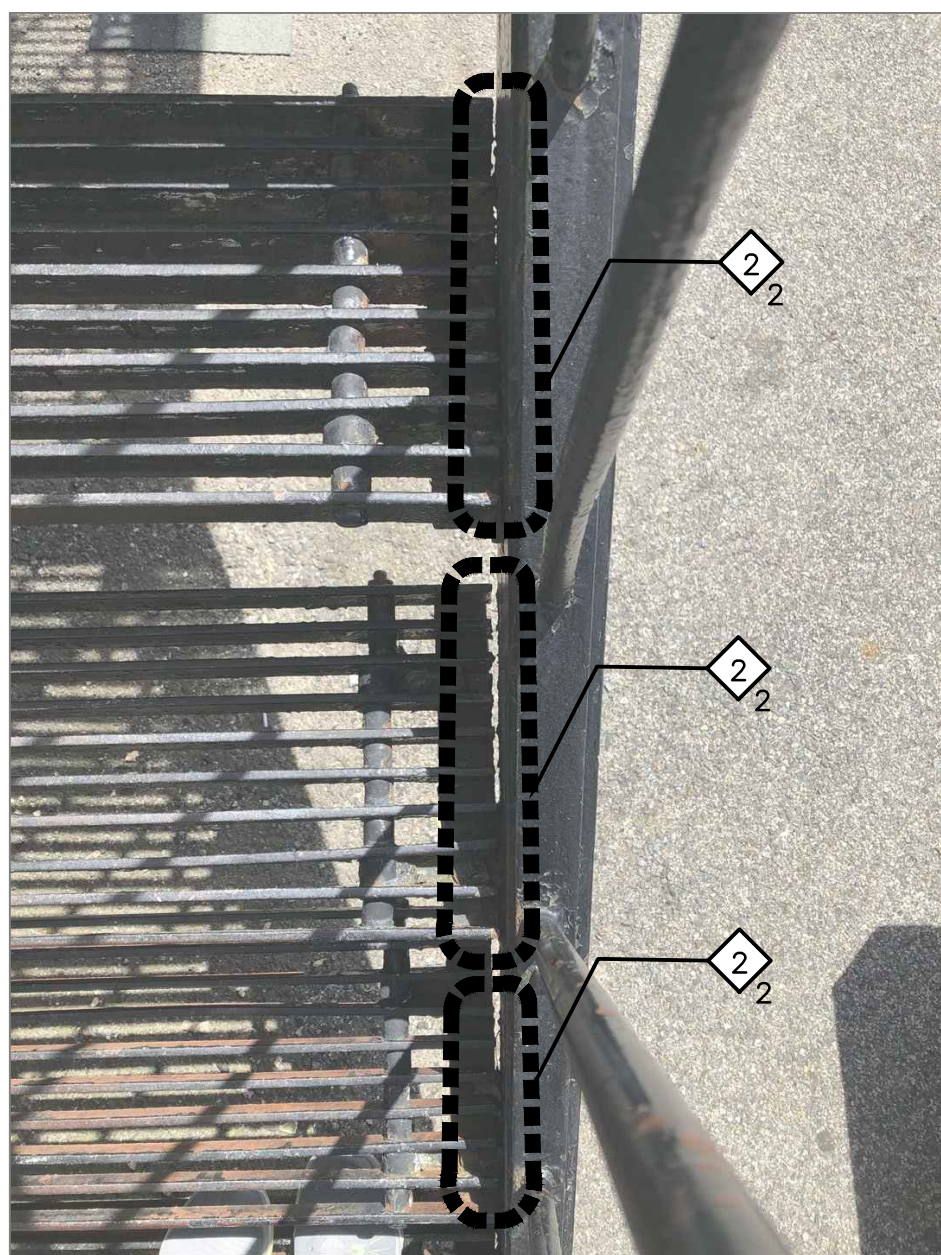
3 RUSTING EXFOLIATION
SCALE: NOT TO SCALE



4 THROUGH BOLTS MISSING OR DETERIORATED
SCALE: NOT TO SCALE



5 DETERIORATED BRICK
SCALE: NOT TO SCALE



6 DETERIORATED OR MISSING BOLTS AT TREADS
SCALE: NOT TO SCALE



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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300	835300-Molloy	
CADD FILE	A200s		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

GRAPHIC SCALE

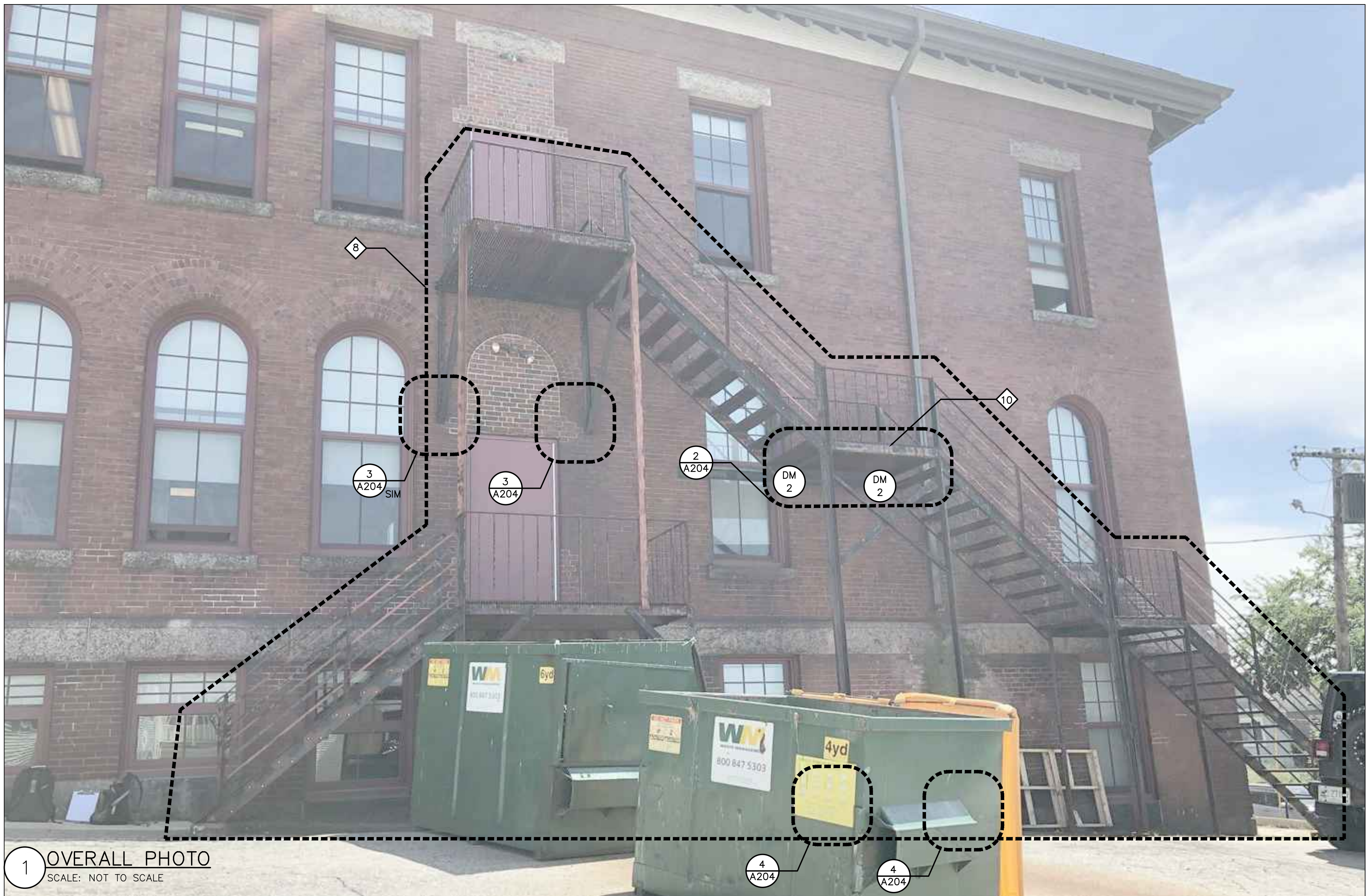
SHEET TITLE

MOLLOY SCHOOL
FIRE ESCAPE
ELEVATIONS AND
DETAIL PHOTOS

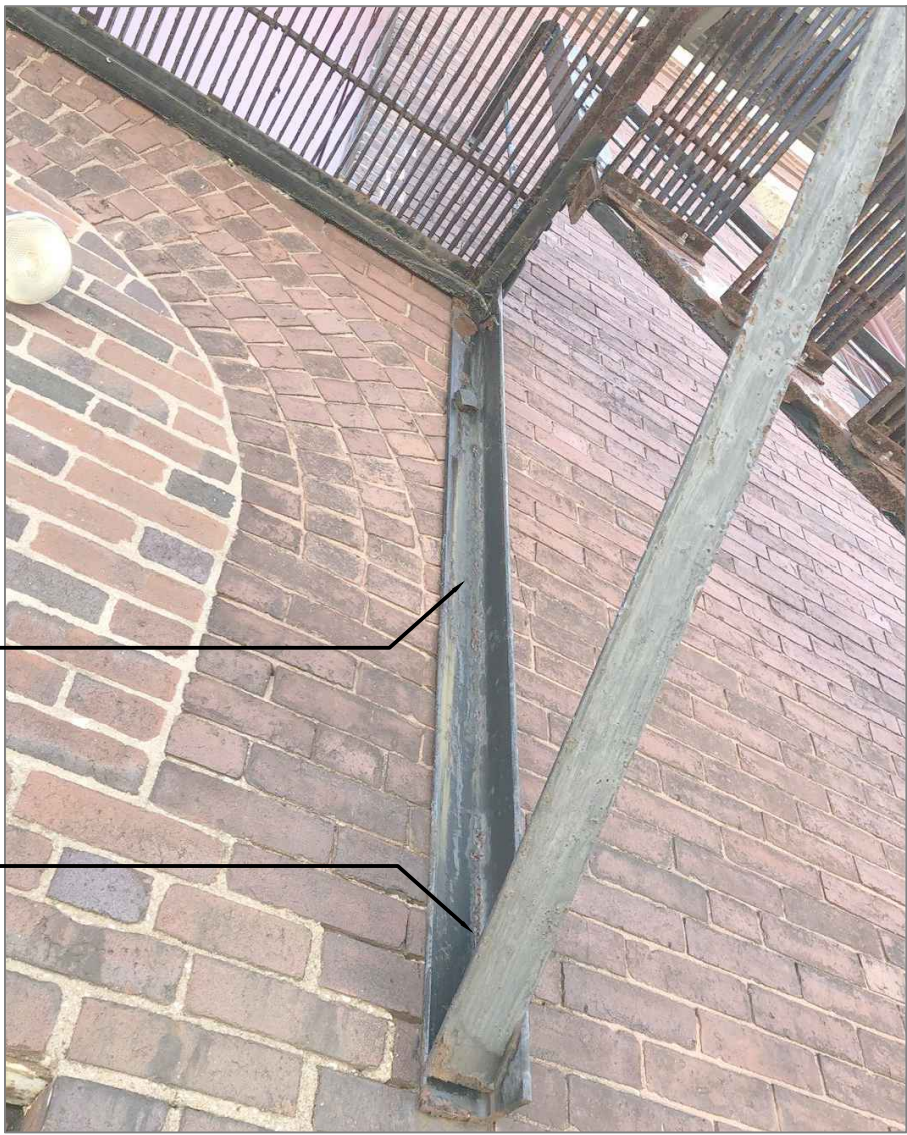
DRAWING NO.

A203

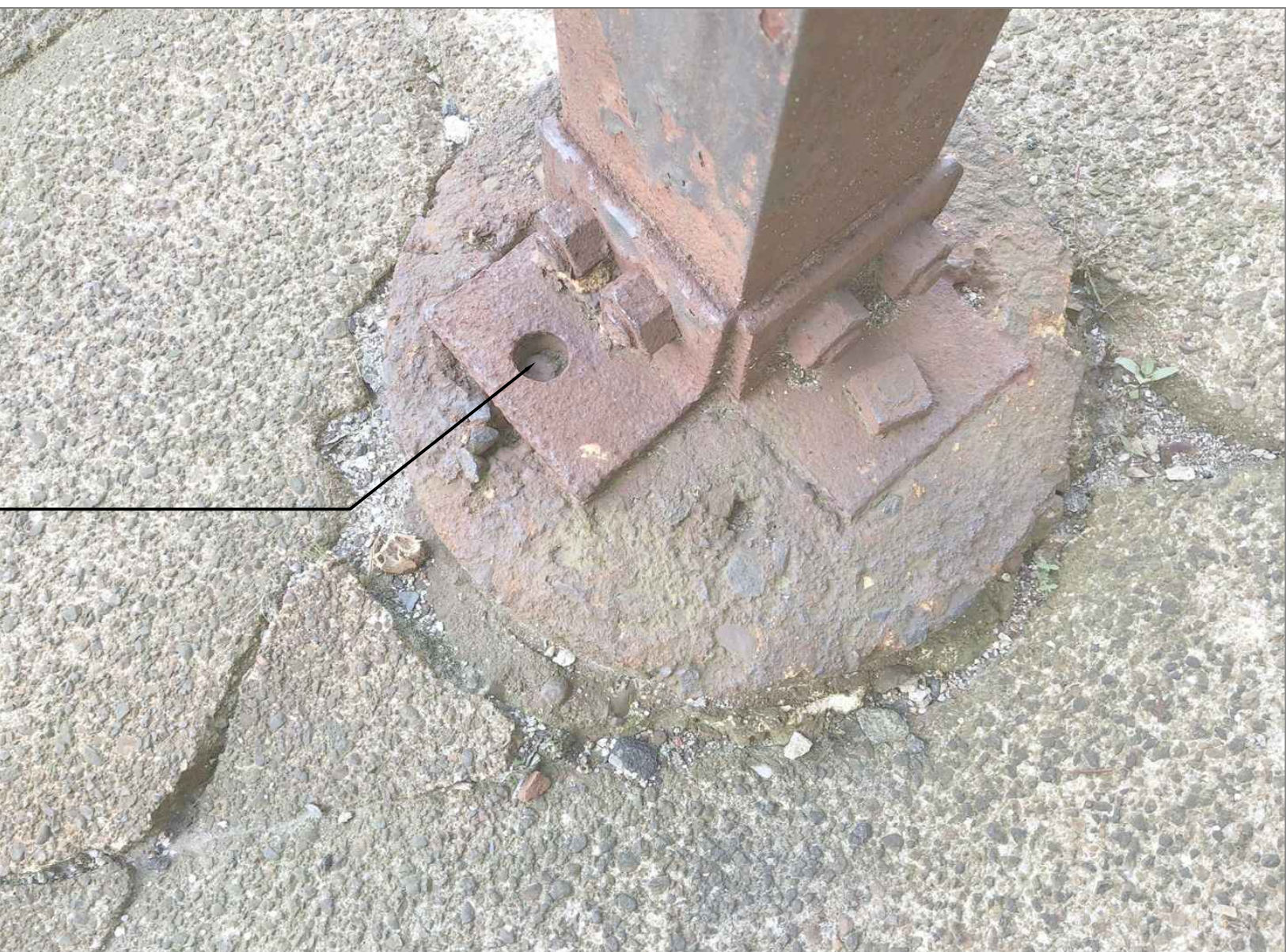
FIRE ESCAPE



2 SECOND LANDING GRATING
SCALE: NOT TO SCALE



3 BRACKET SUPPORT ANGLES
SCALE: NOT TO SCALE



4 MISSING ANCHOR BOLT
SCALE: NOT TO SCALE



Gale Associates, Inc.
Engineers and Planners
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PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852
OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300-Moody		
DESIGNED BY	ACP / AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

SHEET TITLE

MOODY SCHOOL
FIRE ESCAPE
ELEVATION AND
DETAIL PHOTOS

DRAWING NO.
A204

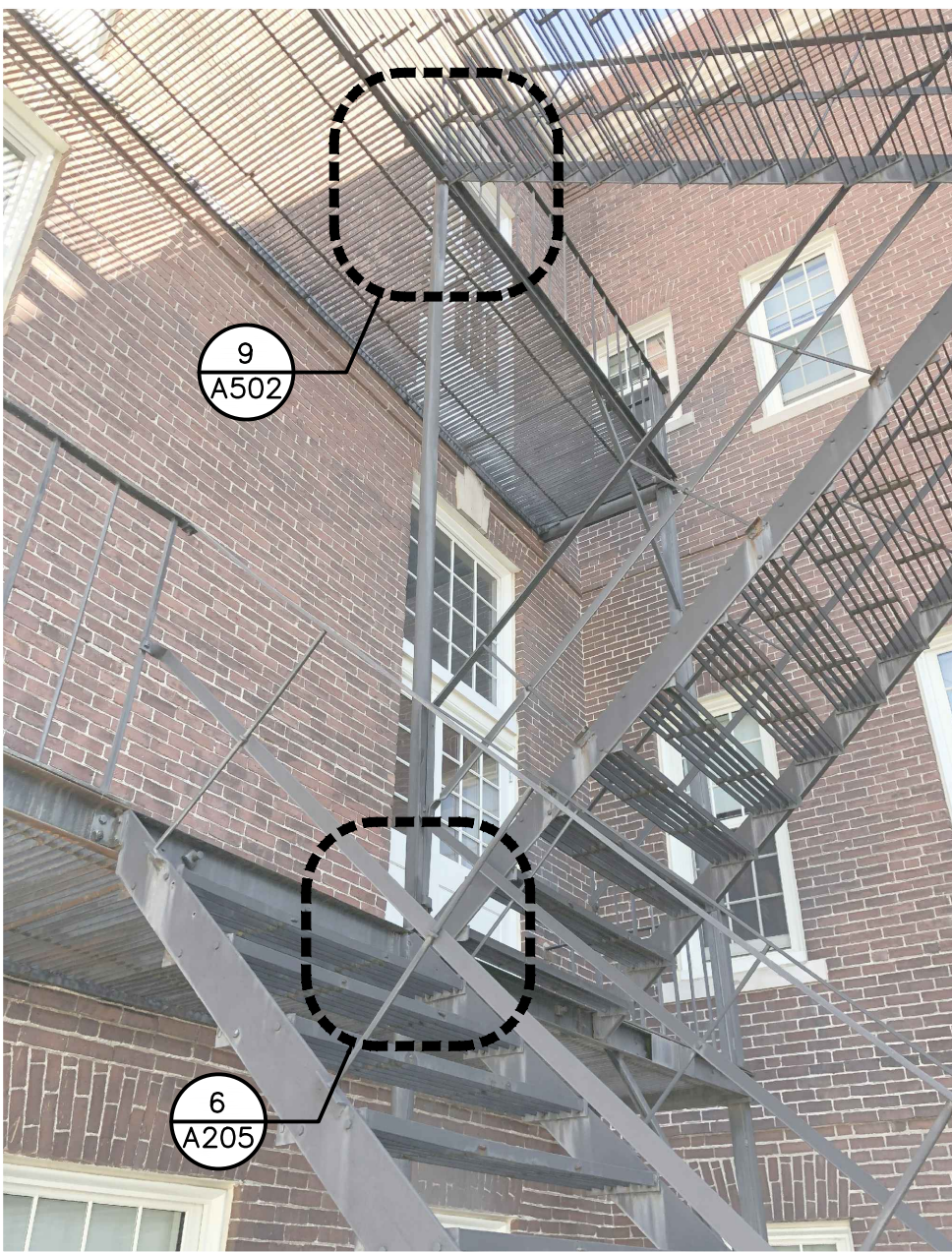
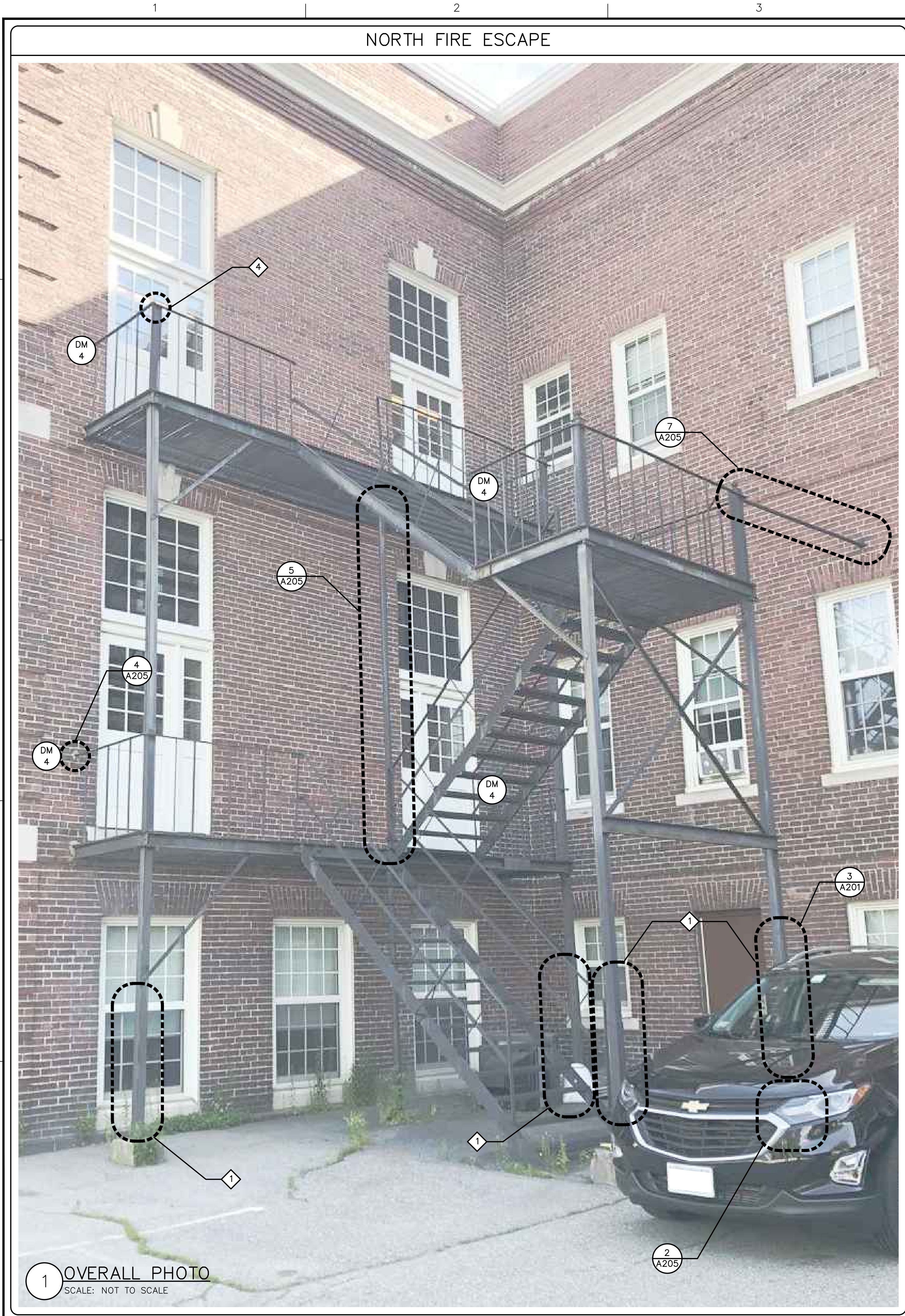
REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET D INDICATES CRACKS GREATER THAN 1/4" IN WIDTH (REFER TO DETAIL 2/A501) S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- SC # SPALLED CONCRETE TO BE REPAIRED; # INDICATES SQUARE FEET (REFER TO DETAIL 4/A501)
- 5 # REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT AND PAINT; COLOR TO BE APPROVED BY OWNER. # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 7 # DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 8 # SCRAPE, PRIME ANT PAINT 100% OF THE FIRE ESCAPE. PAINT COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 9 # DRILL NEW FASTENER HOLE INTO CONCRETE FOOTING, INSTALL NEW EXPANSION ANCHOR AND PAINT; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)
- 10 # REMOVE AND REPLACE EXISTING LANDING GRATING IN LIKE KIND. PAINT NEW LANDING GRATING; COLOR TO BE APPROVED BY OWNER. (PAINTING FILED SUB-BID REQUIRED)

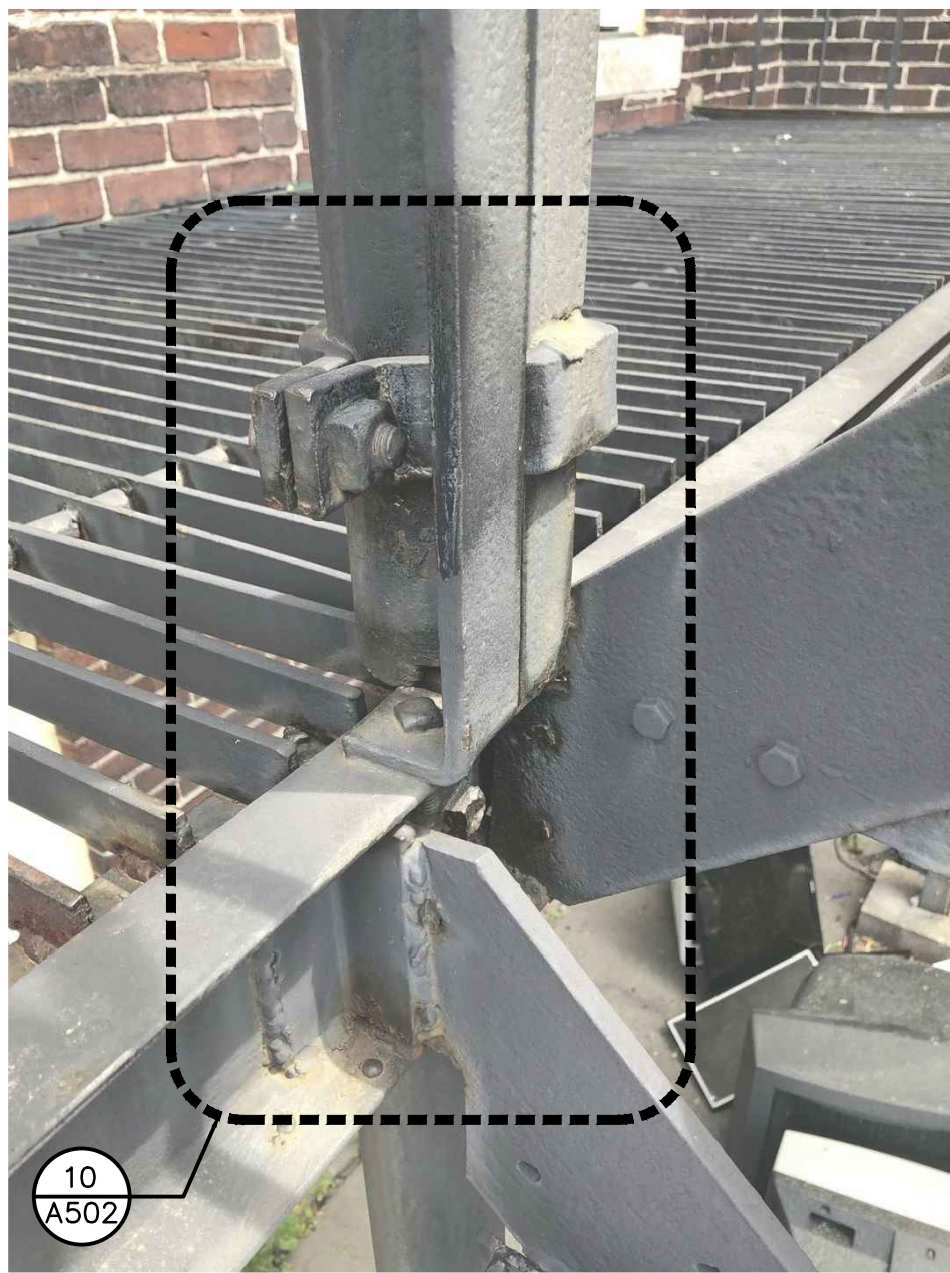
NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

SITE PLAN





5 3" DIAMETER COLUMN
SCALE: NOT TO SCALE



6 3" COLUMN BASE
SCALE: NOT TO SCALE



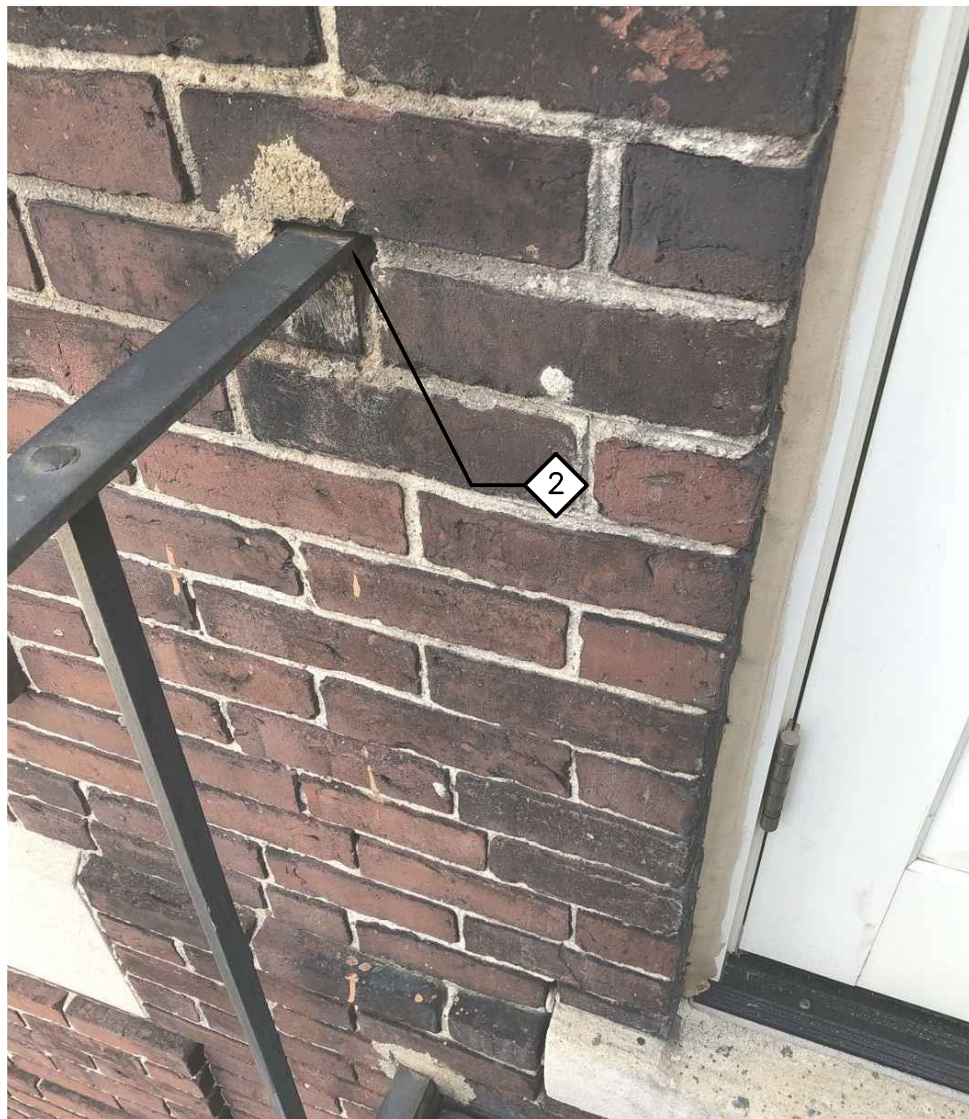
7 WALL ANCHOR
SCALE: NOT TO SCALE



2 CONCRETE FOOTING
SCALE: NOT TO SCALE



3 RUST AT COLUMN
SCALE: NOT TO SCALE



4 HANDRAIL EMBEDMENT
SCALE: NOT TO SCALE

REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # D INDICATES CRACKS GREATER THAN 1/4" IN WIDTH (REFER TO DETAIL 2/A501)
S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- SC # SPALLED CONCRETE TO BE REPAIRED; # INDICATES SQUARE FEET (REFER TO DETAIL 4/A501)
- 1 SCRAPE, PRIME AND PAINT THE PERIMETER OF THE COLUMN FROM THE COLUMN BASE TO A MINIMUM OF 6'-0" ABOVE THE COLUMN BASE. PAINT COLOR TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 2 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO THE HANDRAIL. MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED) (REFER TO DETAIL 5/A501)
- 3 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT; PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 4 INSTALL NEW COLUMN CAP. PROFILE AND COLOR TO MATCH THE ADJACENT EXISTING COLUMN CAPS. (PAINTING FILED SUB-BID REQUIRED)
- 5 REMOVE AND REPLACE STAIR TREADS AND STRINGERS IN LIKE KIND AND PROVIDE NEW CONCRETE SONOTUBE FOOTINGS AT BASE OF STRINGERS; PAINT TO MATCH EXISTING. (PAINTING FILED SUB-BID REQUIRED) (REFER TO DETAIL 6/A501 AND 12/A502)
- 6 REMOVE DISPLACED ANGLE AND SCRAPE, PRIME AND PAINT STRINGER AND CHANNEL TO MATCH EXISTING COLOR. INSTALL NEW CLIP ANGLE WITH THROUGH-BOLTS. (PAINTING FILED SUB-BID REQUIRED)
- 7 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE AND INSTALL NEW EXPANSION ANCHOR. PAINT TO MATCH EXISTING COLOR. (PAINTING FILED SUB-BID REQUIRED)

NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

KEY PLAN



Gale Associates, Inc.
Engineers and Planners
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Boston Baltimore Orlando Hartford

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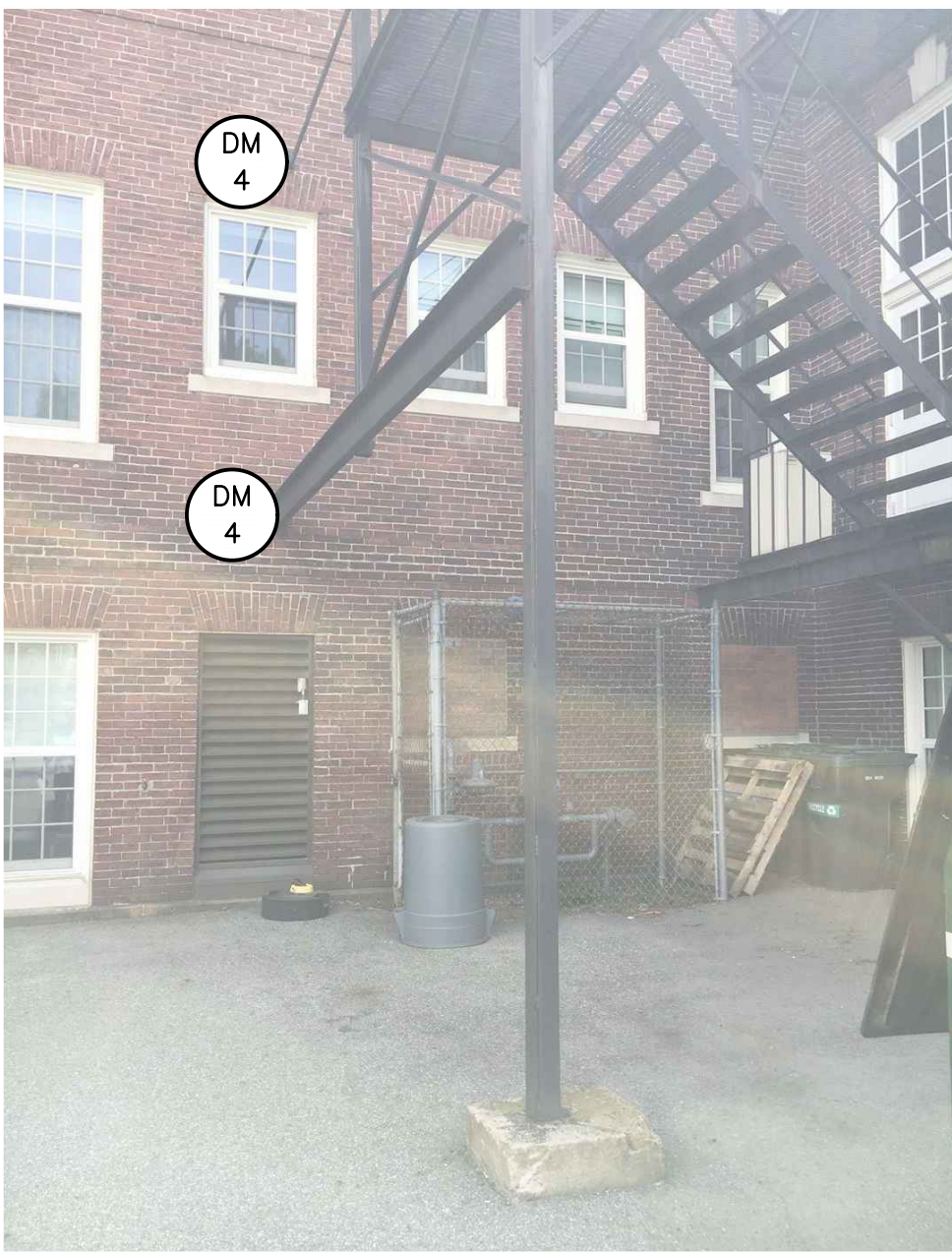
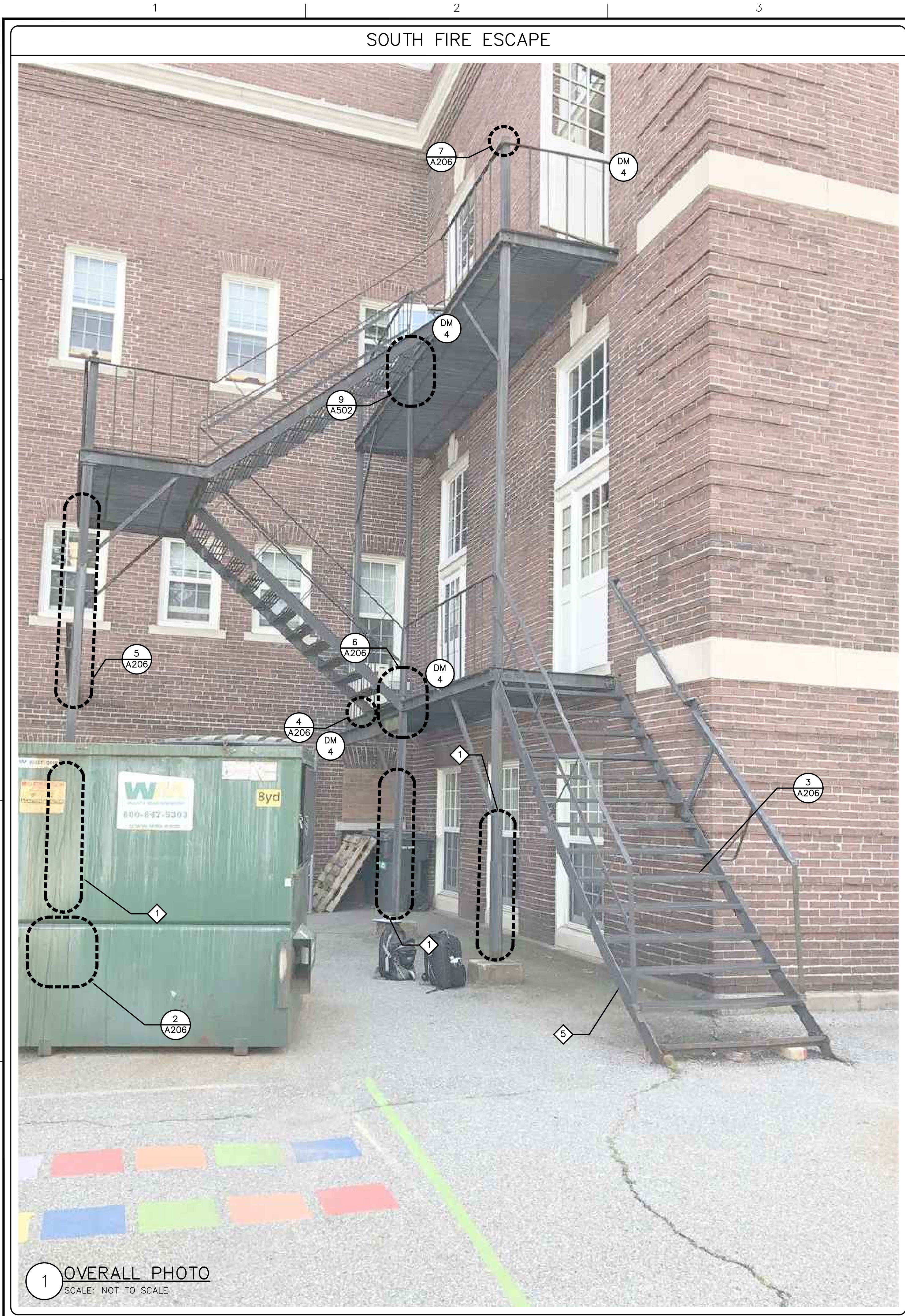
PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

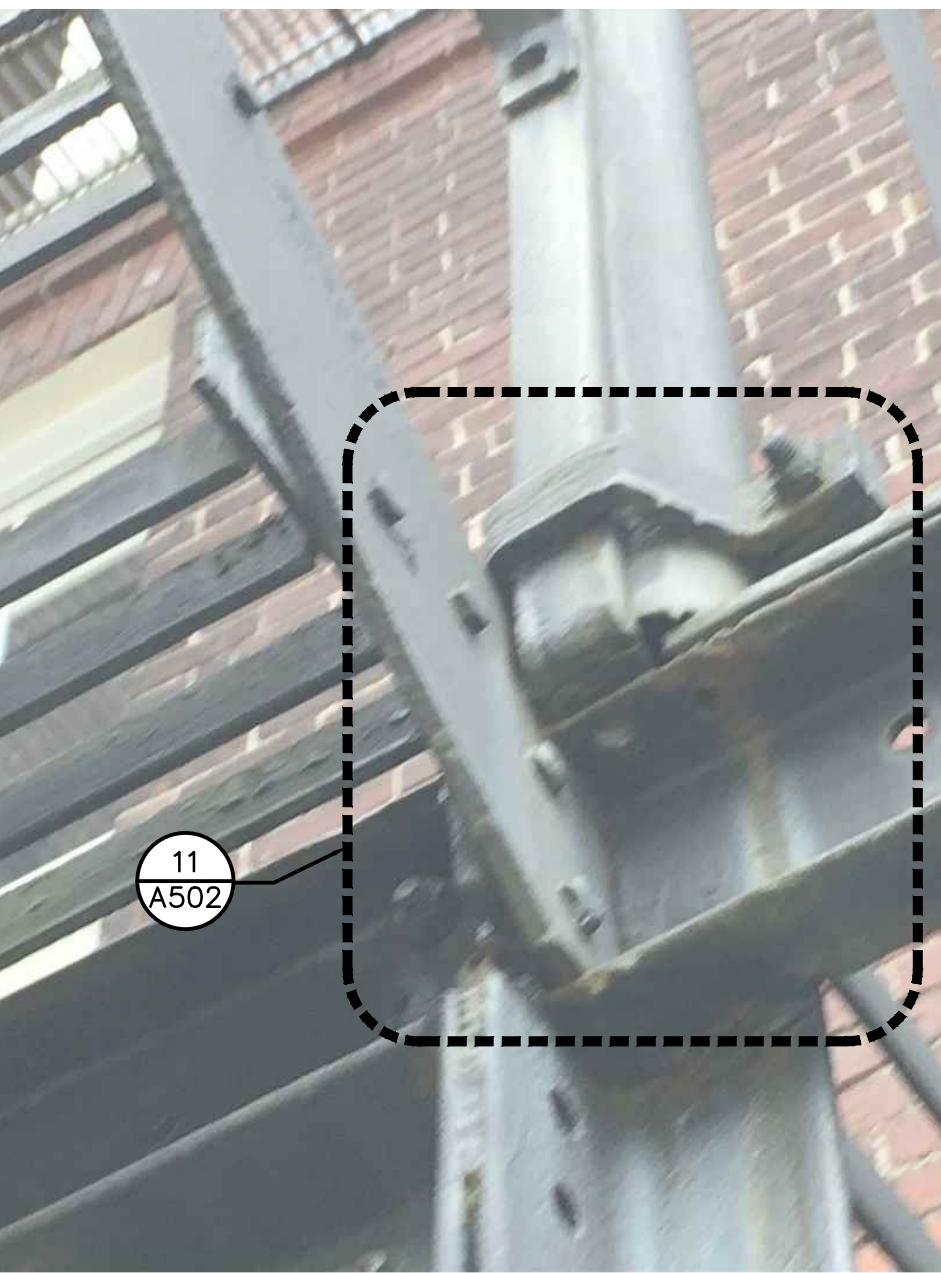
NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	Washington A200s		
DESIGNED BY	ACP/AEO		
DRAWN BY	ACP/ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

SHEET TITLE
WASHINGTON
SCHOOL NORTH
FIRE ESCAPE
ELEVATIONS AND
DETAIL PHOTOS

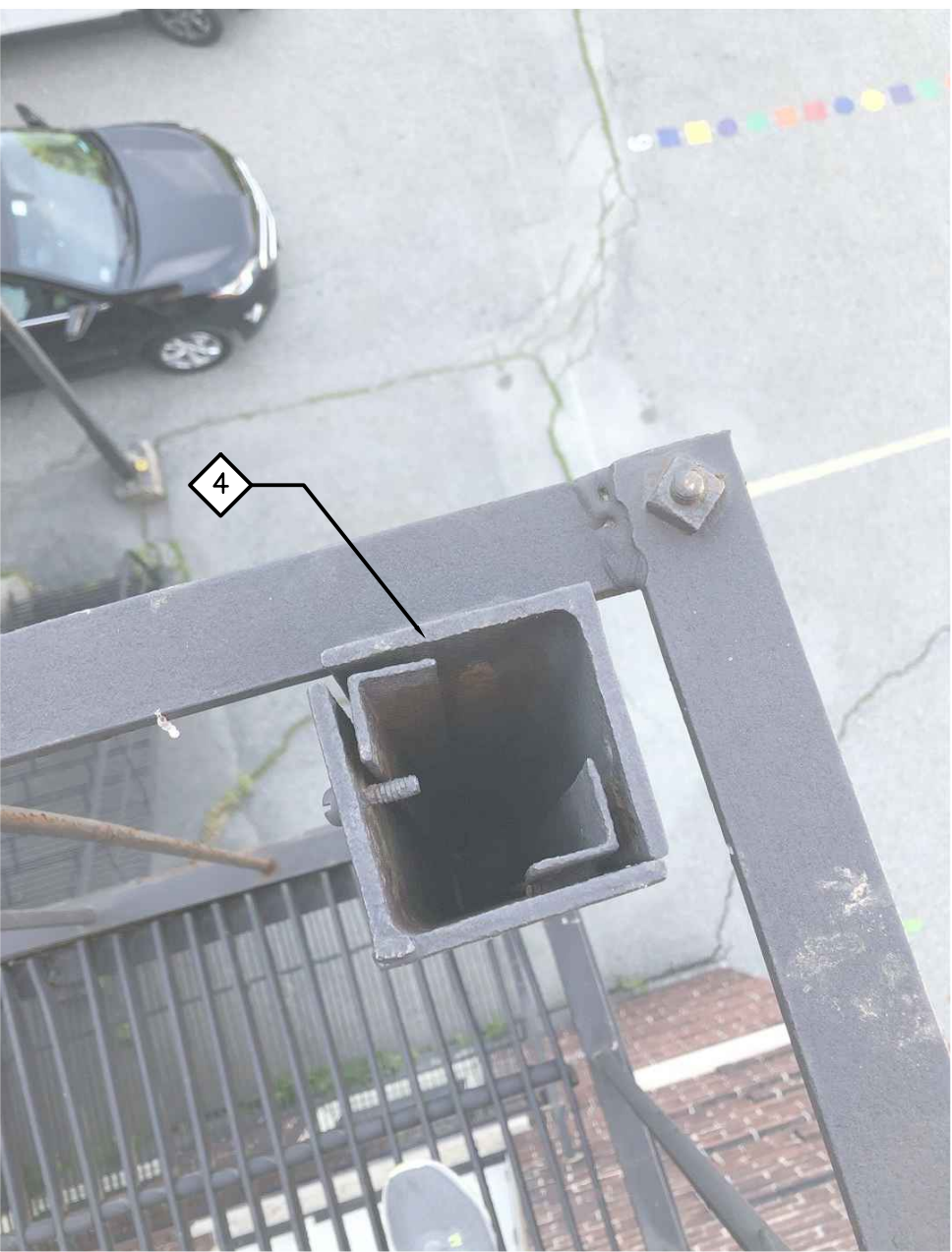
DRAWING NO.
A205



5 STRUCTURAL EMBEDMENT
SCALE: NOT TO SCALE



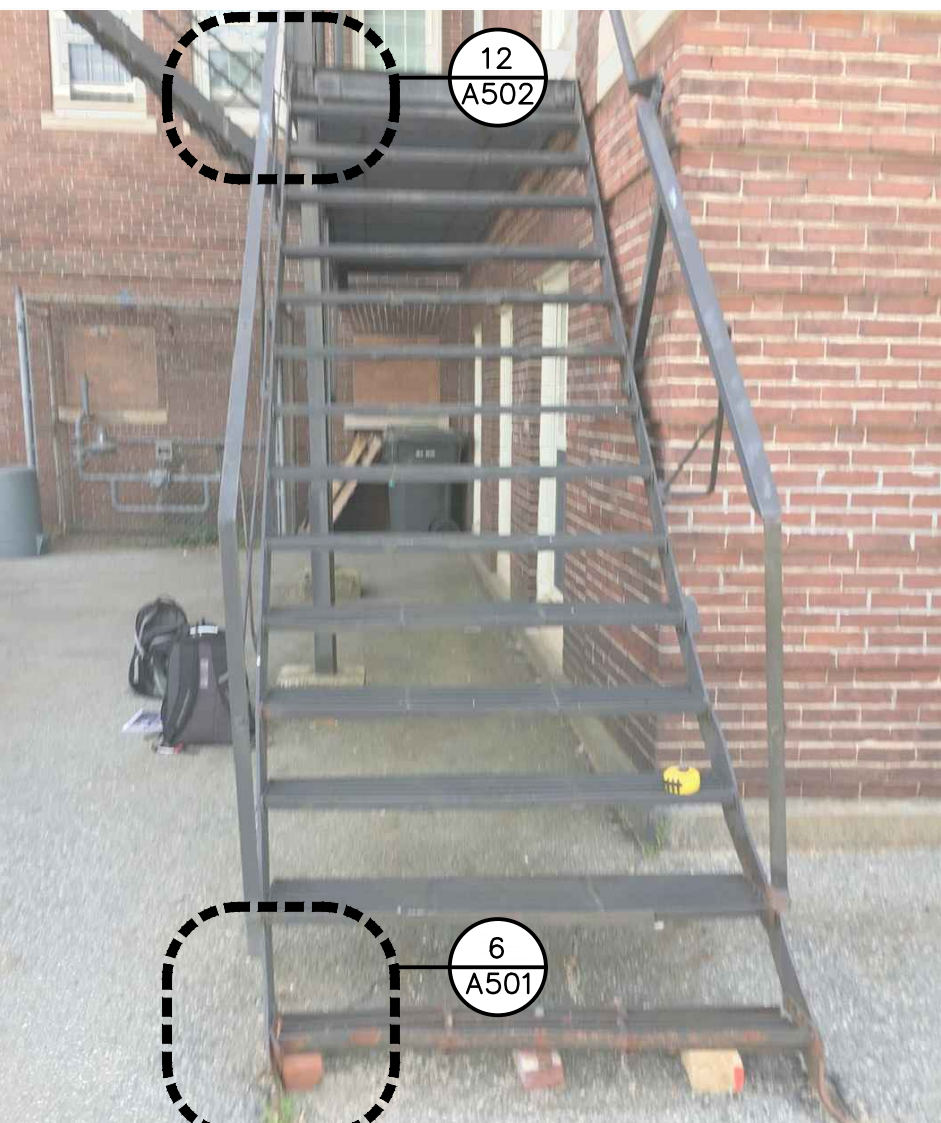
6 3" COLUMN BASE
SCALE: NOT TO SCALE



7 MISSING COLUMN CAP
SCALE: NOT TO SCALE



2 CONCRETE FOOTING
SCALE: NOT TO SCALE



3 DAMAGED STAIR
SCALE: NOT TO SCALE



4 DISPLACED ANGLE
SCALE: NOT TO SCALE

REPAIR NOTES AND LEGEND

- DM # DETERIORATED MORTAR JOINT TO BE CUT AND POINTED; # INDICATES SQUARE FEET (REFER TO DETAIL 1/A501)
- CC # CRACKED CONCRETE TO BE REPAIRED; # INDICATES LINEAR FEET
D INDICATES CRACKS GREATER THAN 1/4" IN WIDTH (REFER TO DETAIL 2/A501)
S INDICATES CRACKS LESS THAN 1/4" IN WIDTH (REFER TO DETAIL 3/A501)
- SC # SPALLED CONCRETE TO BE REPAIRED; # INDICATES SQUARE FEET (REFER TO DETAIL 4/A501)
- 1 SCRAPE, PRIME AND PAINT THE PERIMETER OF THE COLUMN FROM THE COLUMN BASE TO A MINIMUM OF 6'-0" ABOVE THE COLUMN BASE. PAINT COLOR TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED)
- 2 CLEAN EXISTING HANDRAIL OF EXISTING PAINT, DUST AND DEBRIS AND WELD A NEW GALVANIZED STEEL ANGLE TO THE HANDRAIL, MECHANICALLY ATTACH THE ANGLE TO THE ADJACENT BRICK MASONRY WALL AND PAINT THE ANGLE AND EXISTING HANDRAIL; COLOR TO MATCH THE EXISTING. (PAINTING FILED SUB-BID REQUIRED) (REFER TO DETAIL 5/A501)
- 3 REMOVE AND REPLACE DETERIORATED OR MISSING THROUGH-BOLT; PAINT TO MATCH EXISTING; # INDICATES UNIT QUANTITY. (PAINTING FILED SUB-BID REQUIRED)
- 4 INSTALL NEW COLUMN CAP. PROFILE AND COLOR TO MATCH THE ADJACENT EXISTING COLUMN CAPS. (PAINTING FILED SUB-BID REQUIRED)
- 5 REMOVE AND REPLACE STAIR TREADS AND STRINGERS IN LIKE KIND AND PROVIDE NEW CONCRETE SONOTUBE FOOTINGS AT BASE OF STRINGERS; PAINT TO MATCH EXISTING. (PAINTING FILE SUB-BID REQUIRED) (REFER TO DETAIL 6/A501 AND 12/A502)
- 6 REMOVE DISPLACED ANGLE AND SCRAPE, PRIME AND PAINT STRINGER AND CHANNEL TO MATCH EXISTING COLOR. INSTALL NEW CLIP ANGLE WITH THROUGH-BOLTS. (PAINTING FILED SUB-BID REQUIRED)
- 7 DRILL NEW FASTENER HOLE THROUGH STEEL PLATE AND INTO SOLID BRICK MASONRY SUBSTRATE AND INSTALL NEW EXPANSION ANCHOR. PAINT TO MATCH EXISTING COLOR. (PAINTING FILED SUB-BID REQUIRED)
- NOTE: ALL REPAIR ITEMS MAY NOT BE SHOWN ON THIS SHEET

KEY PLAN



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Boston Baltimore Orlando Hartford

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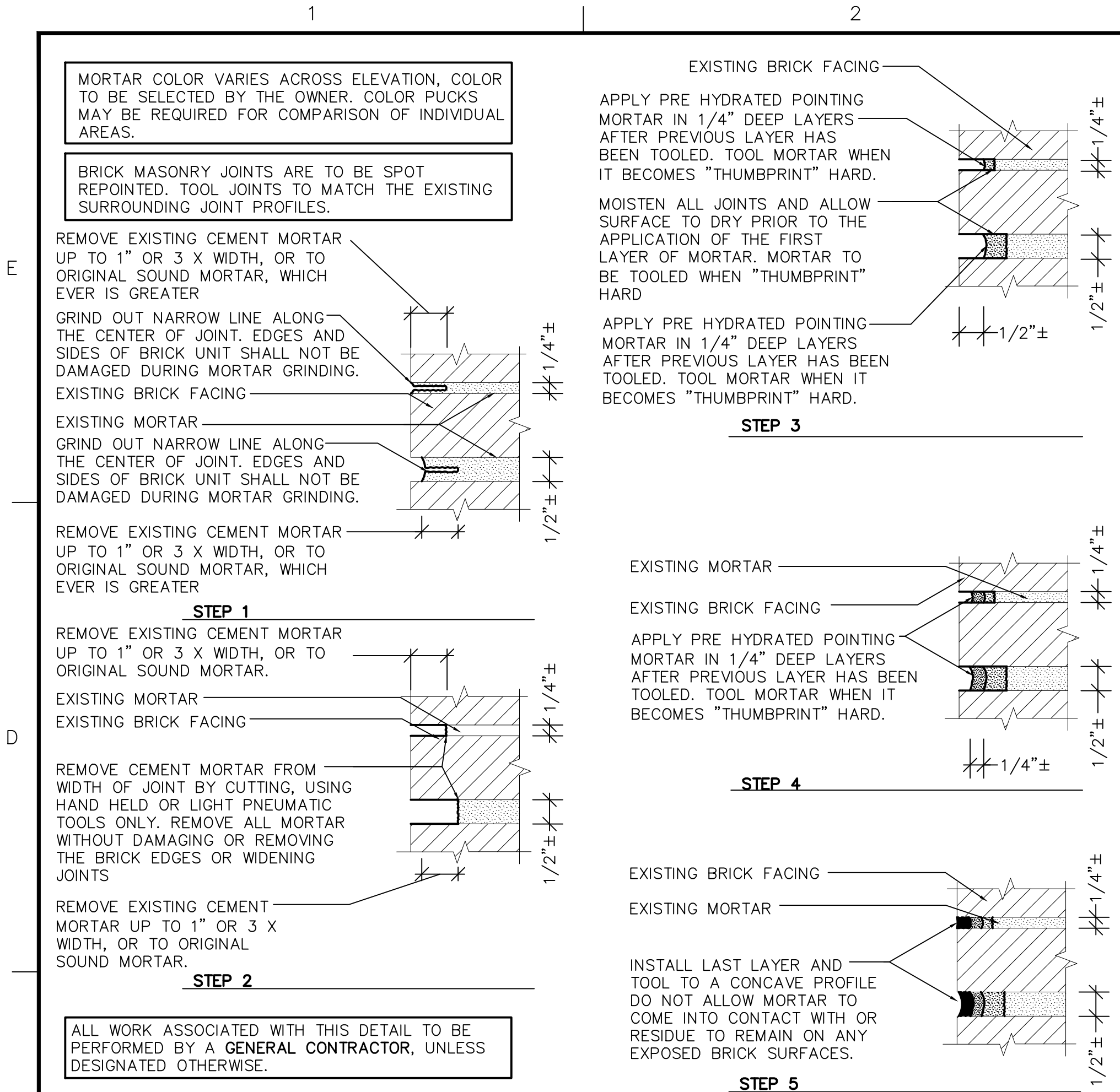
PROJECT
FIRE ESCAPE REPAIRS AND ASSOCIATED WORK
AT THE CARDINAL O'CONNELL, GREEN,
MOLLOY, MOODY, AND WASHINGTON SCHOOLS
LOWELL, MA 01852

OWNER
CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	Washington A200s		
DESIGNED BY	ACP/AEO		
DRAWN BY	ACP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	NOT TO SCALE		

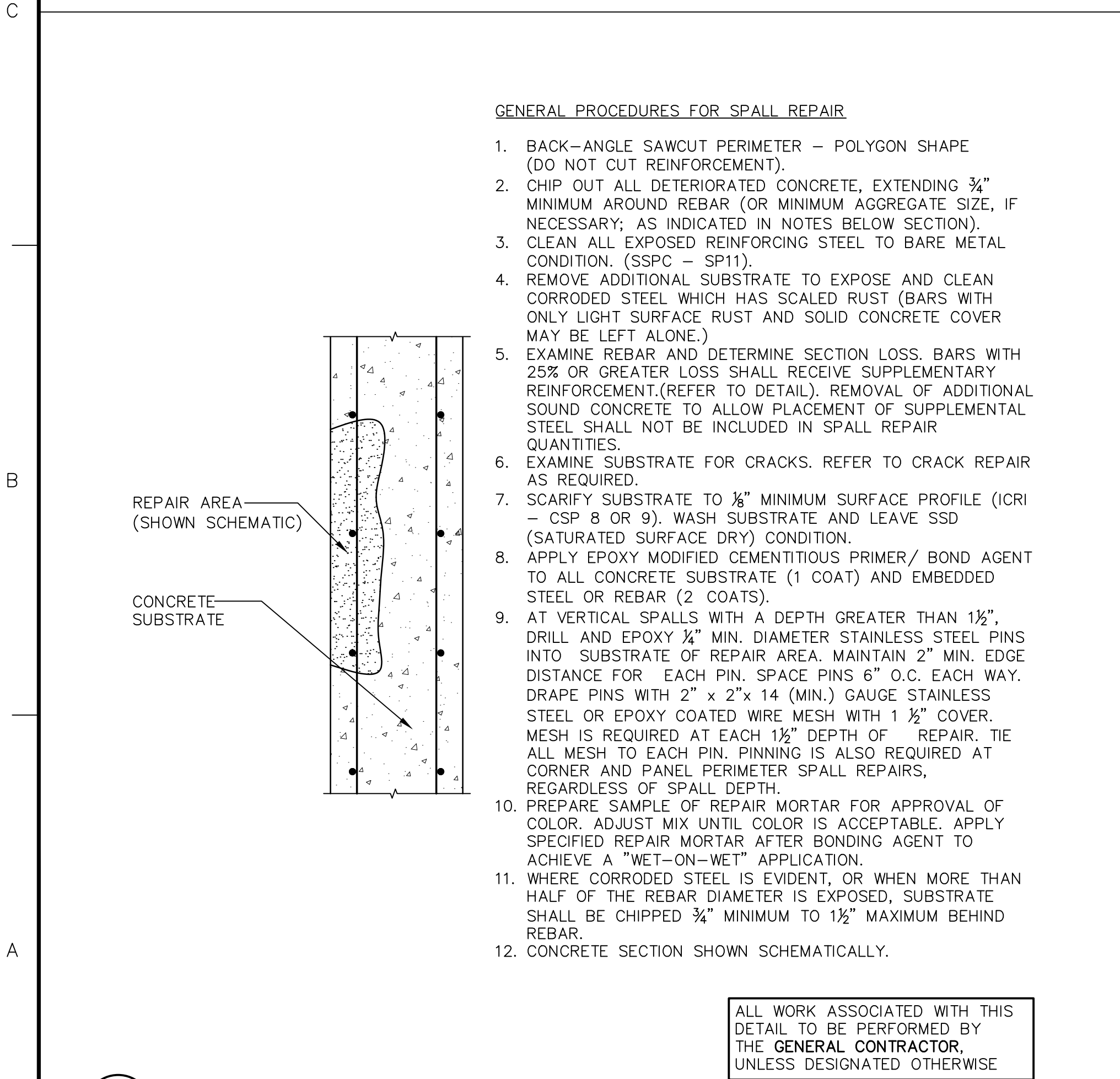
SHEET TITLE
WASHINGTON
SCHOOL SOUTH
FIRE ESCAPE
ELEVATIONS AND
DETAIL PHOTOS

DRAWING NO.
A206



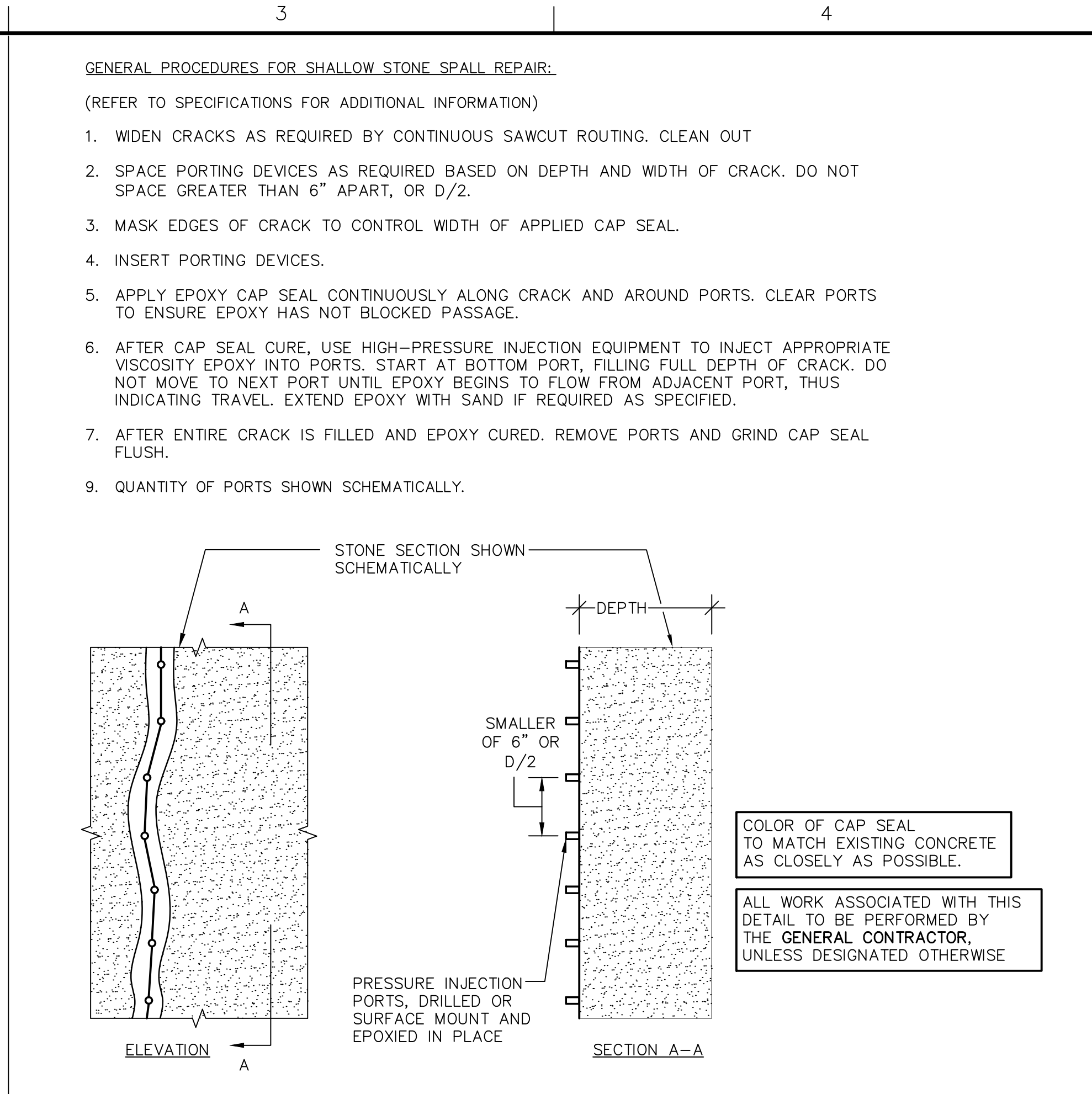
1 **BRICK MASONRY REPOINTING**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)



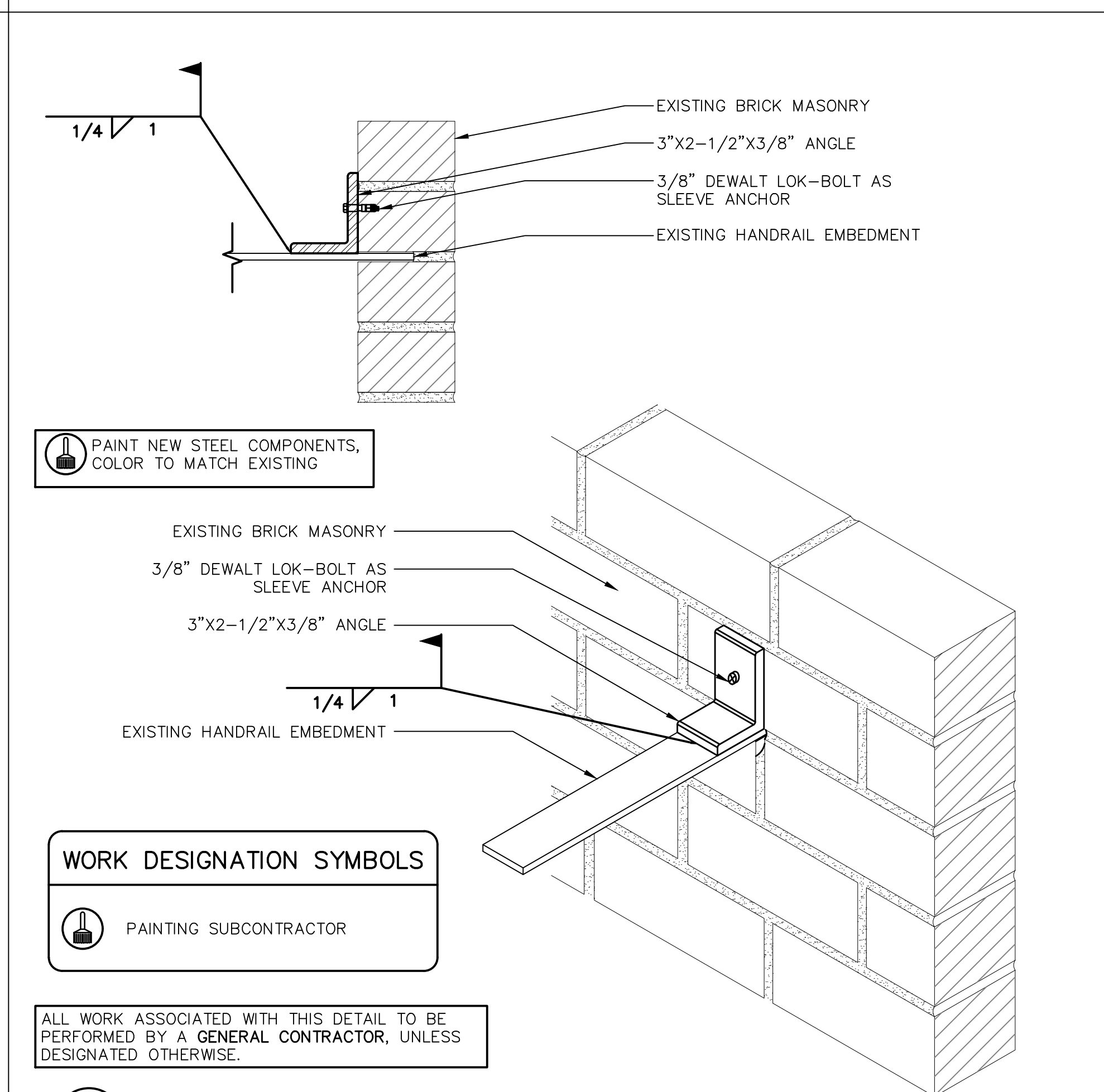
4 **TYPICAL SPALL REPAIR**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)



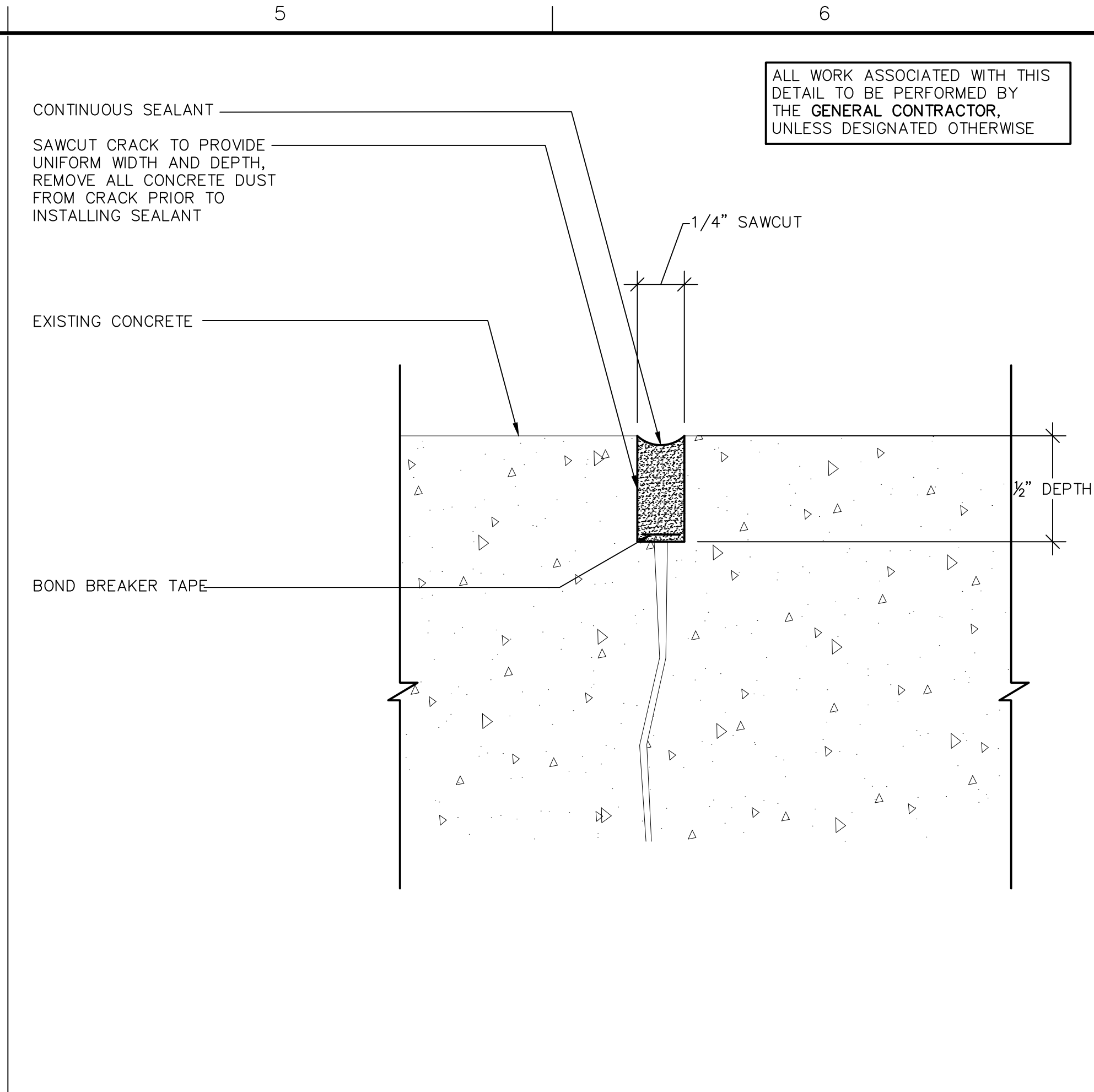
2 **DEEP CRACK PRESSURE INJECTION EPOXY REPAIR**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)



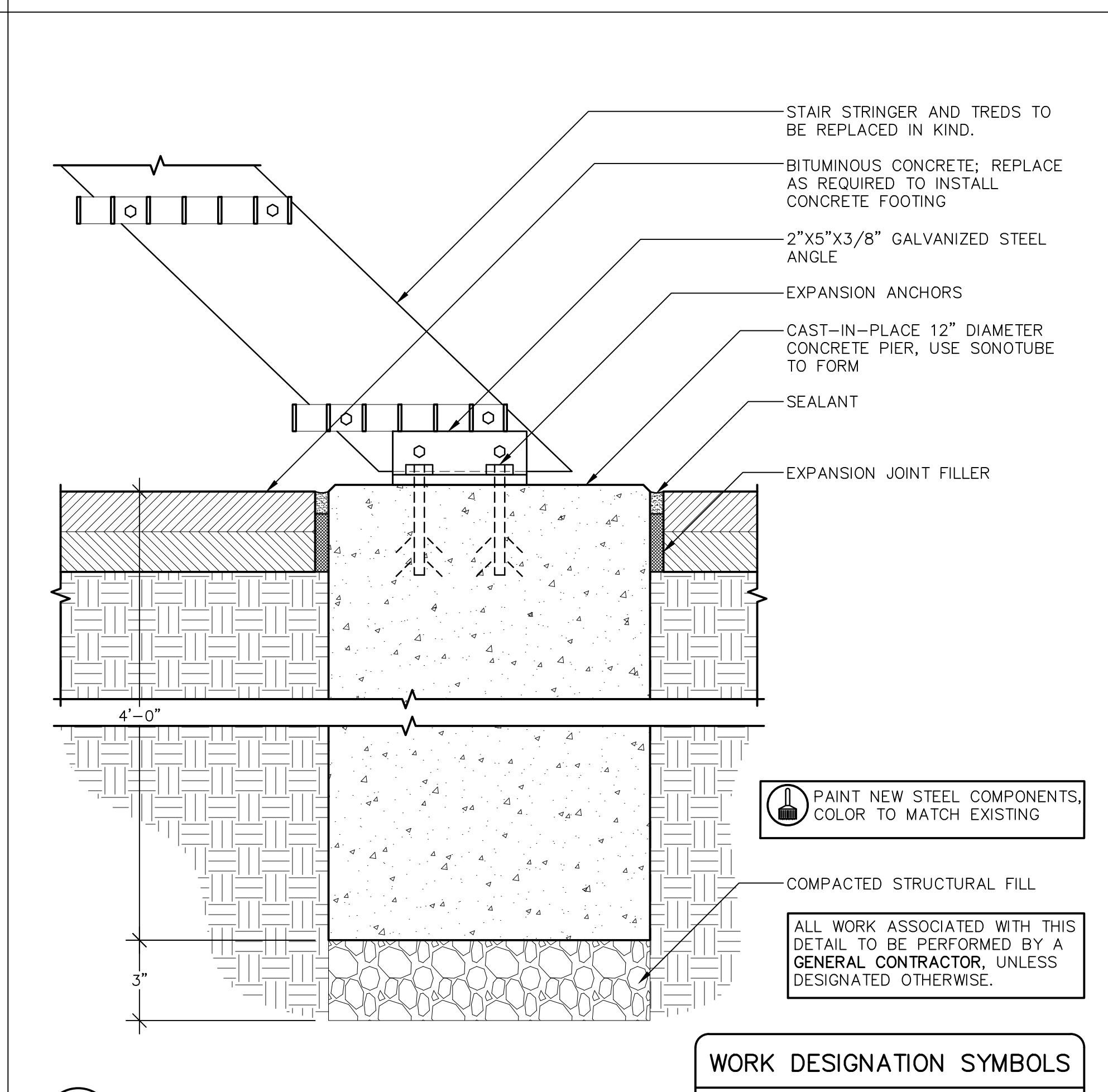
5 **EXISTING HANDRAIL SECUREMENT**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)



3 **SHALLOW CONCRETE CRACK - ROUT & SEAL REPAIR**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)



6 **STAIR BASE AND FOOTING DETAIL**

SCALE: NOT TO SCALE
(ALL ITEMS ARE NEW UNLESS DESIGNATED AS EXISTING)

GALE

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PROJECT

FIRE ESCAPE REPAIRS AND ASSOCIATED WORK AT THE CARDINAL O'CONNELL, GREEN, MOLLOY, MOODY, AND WASHINGTON SCHOOLS LOWELL, MA 01852

OWNER

CITY OF LOWELL ENGINEERING DEPARTMENT
375 MERRIMACK STREET
LOWELL, MA 01852

NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300 A500s		
DESIGNED BY	ACP /AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	3"=1'-0"		

GRAPHIC SCALE

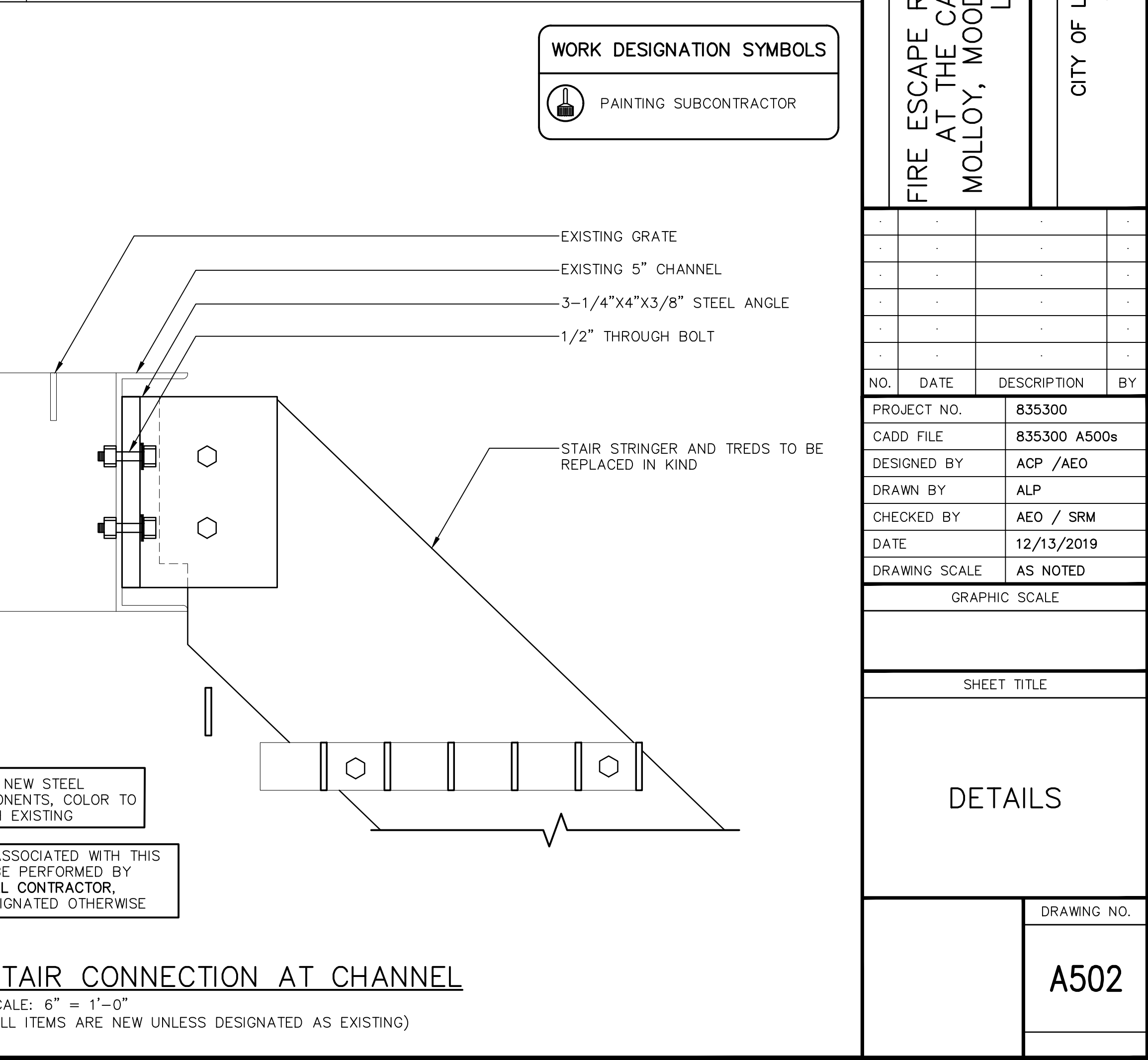
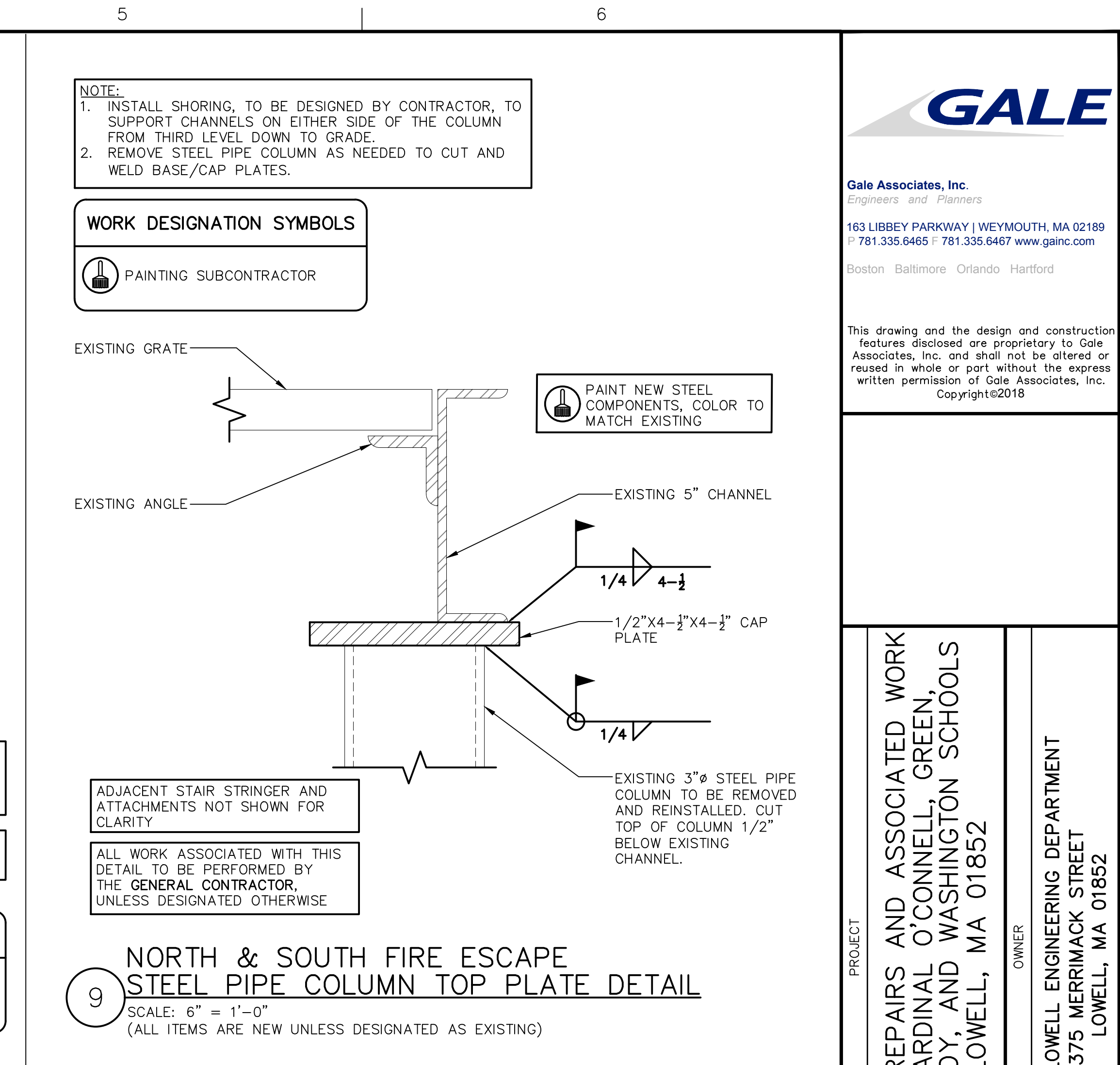
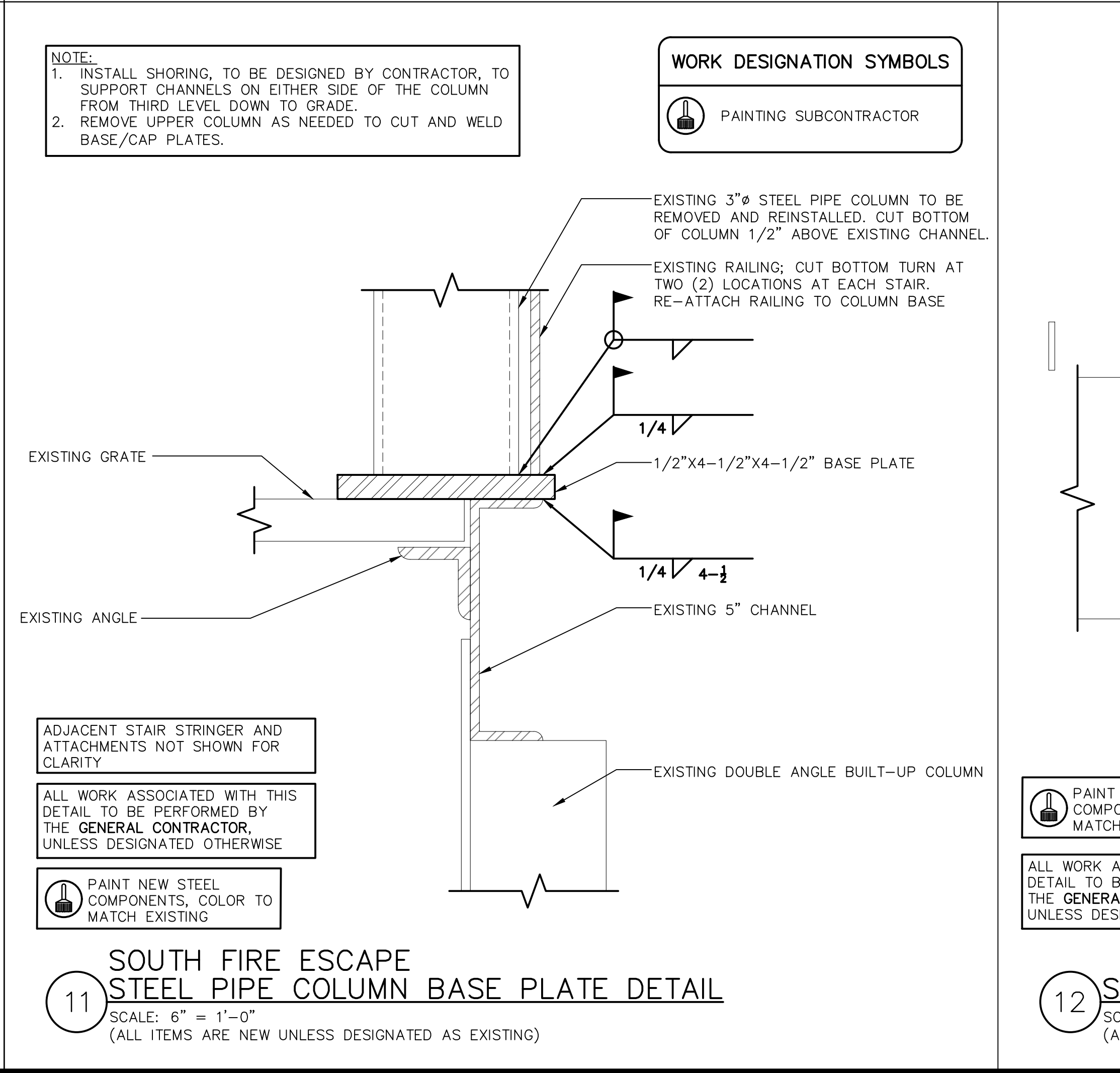
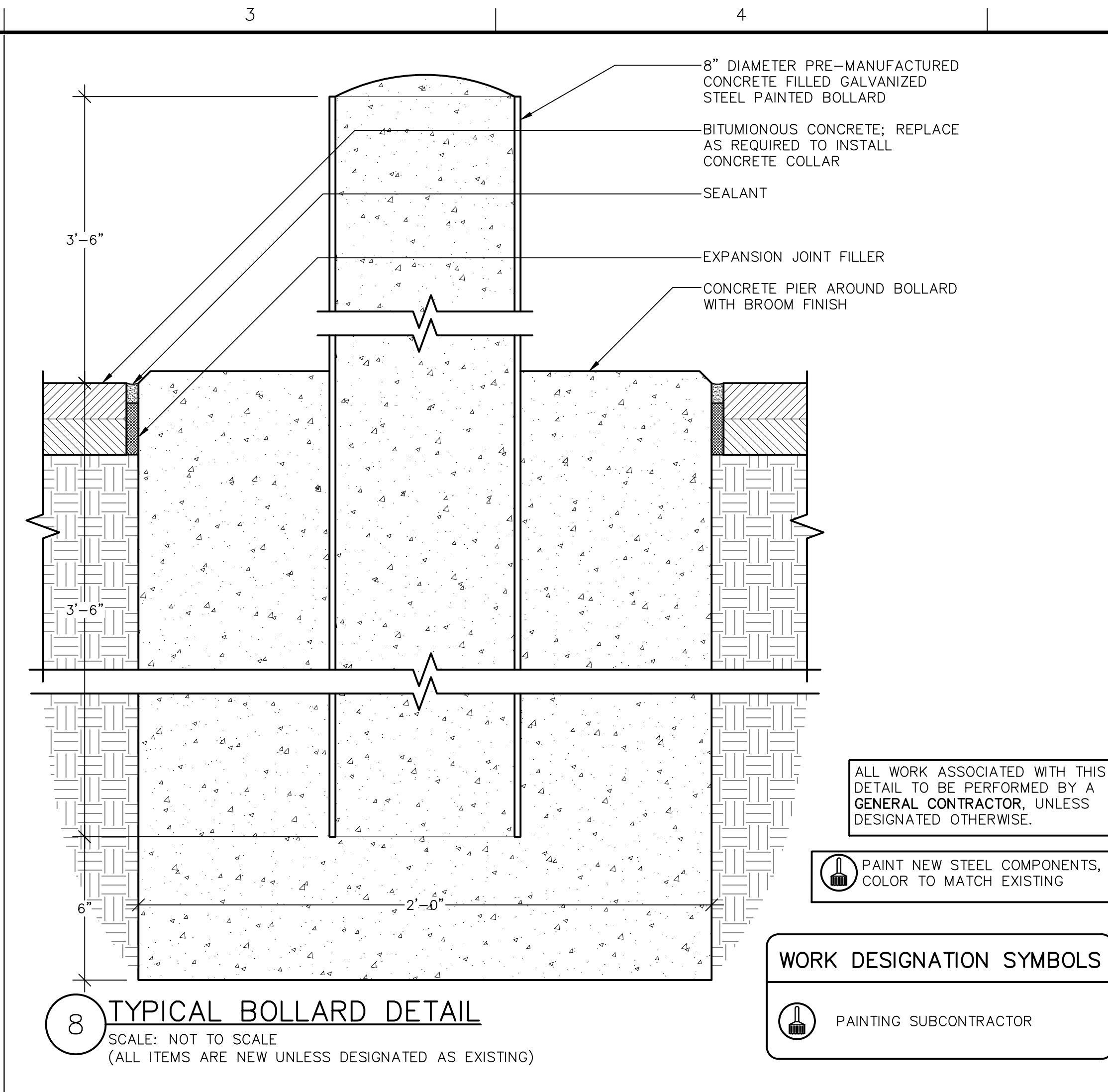
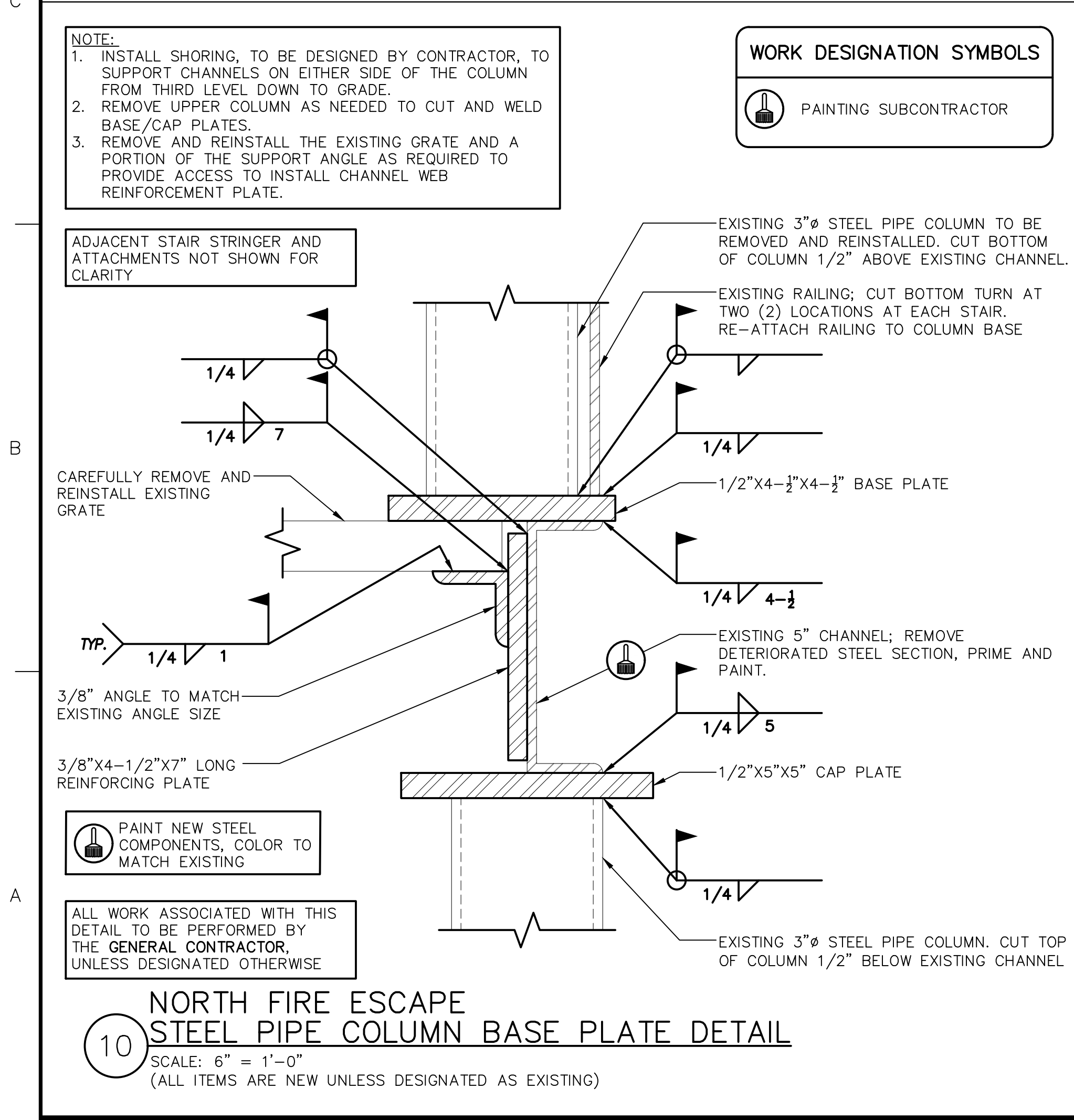
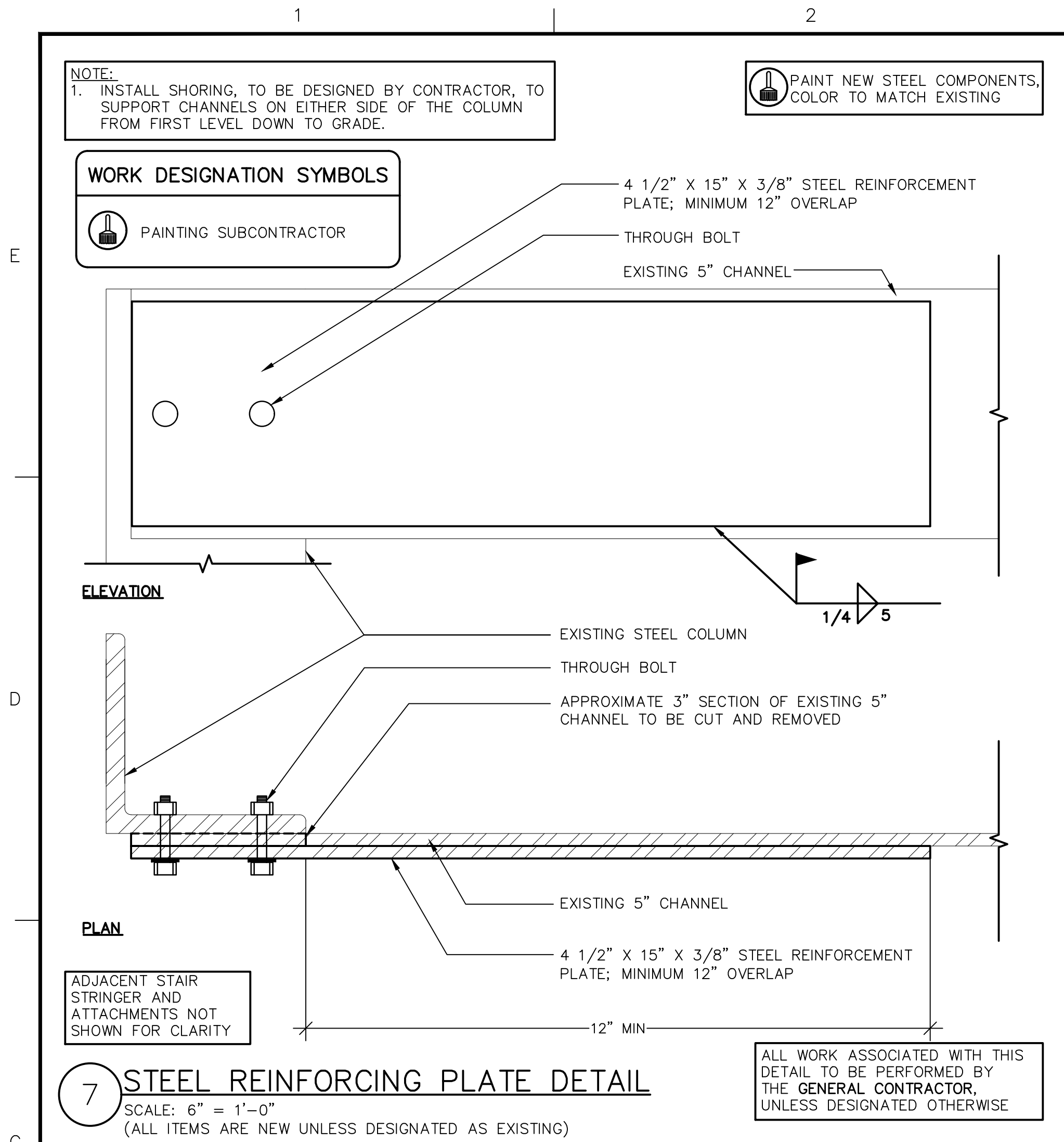
0 3' 6' 9'

SHEET TITLE

DETAILS

DRAWING NO.

A501



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PROJECT
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OWNER
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NO.	DATE	DESCRIPTION	BY
PROJECT NO.	835300		
CADD FILE	835300 A500s		
DESIGNED BY	ACP /AEO		
DRAWN BY	ALP		
CHECKED BY	AEO / SRM		
DATE	12/13/2019		
DRAWING SCALE	AS NOTED		

GRAPHIC SCALE

SHEET TITLE

DETAILS

DRAWING NO.

A502